CONTENTS OF SUPPLEMENT.

PERSONAL 41
Obituary 41
ENGINEERING SOCIETIES 41
Coming General Meetings 41
NEW PUBLICATIONS. 41
Trade Publications 42
CONSTRUCTION NEWS:
Condensed List of Contracts Pending 42
Railways 42
Street and Electric Railways 43
Electric Light and Power 44
Bridges 44
Buildings 44
Water-Works 45
Sewerage 46
Garbage Disposal and Street Cleaning 46
Streets and Roads 46
Manufacturing Plants 47
Miscellaneous Contracts 47
Foreign Contracts and Export News 47
Contract Prices 48
INDUSTRIAL NOTES. 48

PERSONAL.

Mr. Alva Seybolt has been appointed Village Engineer of Oneonta, N. Y.

Mr. George Leighton has been elected City Engineer of Carbondale, Pa., to succeed Mr. Randolph Mason.

Mr. Fred. P. Spalding has been elected to the Chair of Civil Engineering in the Missouri State University.

Mr. John W. Miles has been appointed Chief Engineer of the tram and horse-car lines in Vera Cruz, Mexico.

Mr. Everett M. Winslow has been promoted to Chief Engineer of the Brockton Street Ry. of Massachusetts.

Mr. Solomon Hass has resigned the Presidency of the Sloss-Sheffield Steel & Iron Co., on account of ill-health.

Mr. Harry L. Preston has been appointed a Civil Engineer on the Pennsylvania Railroad System, with headquarters at Pittsburg, Pa.

Mr. Thomas Munn, Jr., has been elected a Director and Superintendent of the South St. Paul Belt R. R., with office at South St. Paul, Minn.

Mr. Nathaniel M. Jones has been elected President of the Peoria & St. Louis Ry., with Mr. William Spooner, Secretary. The company's headquarters is at Springfield, Ill.

Mr. Geoffrey Stead, Civil Engineer, of St. John, N. B., has been temporarily appointed Assistant to Mr. E. T. P. Shewen, Chief Engineer of Public Works in New Brunswick.

Mr. Lehman B. Holt has resigned as Cleveland Sales Manager of Henry R. Worthington, and will engage in steam, electrical and hydraulic engineering, with offices at 729 Society for Savings Building, Cleveland, O.

Mr. Ward Barnum has resigned as Professor of Mechanical Engineering at the Washington State College and is now associated with the Arnold Electric Power Station Co., with offices at 1540 Marquette Building, Chicago.

Mr. A. A. Robinson, President of the Mexico Central Ry. Co., Ltd., has had the degree of LL.D. conferred on him by the University of Michigan in consideration of his "eminence as an engineer and railway administrator."

Mr. R. W. Walker, Assistant Superintendent of Bridges and Buildings on the Delaware, Lackawanna & Western R. R., has been appointed foreman of the same department on the Syracuse-Oswego, the Syracuse-Binghamton and the Utica divisions, to succeed Mr. C. L. Woodward.

Mr. P. D. Cunningham, formerly Chief Engineer of Havana, Cuba, has been appointed Consulting Engineer of the International Boundary Commission of the United States and Mexico, with headquarters at El Paso, Tex. Lieut. W. J. Barden, Corps of Engineers, U. S. A., will succeed Mr. Cunningham as Chief Engineer, City of Havana.

The following appointments have been made by the Boston & Maine R. R. for the Fitchburg division: F. O. Melcher, Superintendent, with office in Boston; M. P. Snyder, Assistant Superintendent of the western section, with office at Mechanicsville, N. Y.; E. A. Smith, Assistant Superintendent of the eastern section, with office in Boston; A. A. Cheever, Assistant to Chief Engineer, with office in Boston.

Professors Arthur Newell Talbot, M. Am. Soc. C. E., and Ira Osborn Baker, M. Am. Soc. C. E., of the University of Illinois, are studying the water-works and sewerage systems at Berlin, Germany. Mr. Edward P. North, Vice-President Am. Soc. C. E., and Mr. W. F. Willoughby, of the United States Department of Labor, are at Berlin, Germany, inquiring into the economic value of technically educated labor from the standpoint of the employers.

Mr. Daniel W. Mead, M. Am. Soc. C. E., and Mr. John B. Heim, Superintendent of the Water-Works Plant at Madison, Wis., have been appointed by the city of Sheboygan, Wis., as Appraisers, to meet Mr. Geo. H. Benzenberg, M. Am. Soc. C. E., and Mr. John W. Alvord, M. Am. Soc. C. E., Appraisers appointed by the water company, and Mr. Benezette Williams, appointed jointly, to appraise the water-works system of Sheboygan for purchase by the city. The meeting will be held in Sheboygan on Aug. 13.

OBITUARY.

Mr. Joseph P. Noyes, Inventor, recently died at Binghamton, N. Y.

Mr. Joseph Alexander, a Civil Engineer on the New Jersey division of the Pennsylvania R. R., was drowned Aug. 4, near Old Forge, N. Y.

Mr. J. F. Woffindin, Chairman of the Chicago Freight Committee, died July 25. Mr. Woffindin was 60 years of age, and was well known in railroad circles.

Mr. Clark L. Pierce, General Superintendent of the Rutland R. R., died at Rutland, Vt., on Aug. 6. Mr. Pierce was a well-known figure in railroad circles, and began his railroad career 45 years ago as a clerk in the employ of the Central Vermont Ry.

Mr. George Follett, for thirty years Assistant Treasurer of the New York office of the Northern Pacific R. R., died Aug. 1. Mr. Follett was born at Burlington, Vt., May 29, 1830. For many years he was connected with the Central Vermont R. R., which he left to enter the employ of the Northern Pacific.

Major Benjamin S. Henning died at home in New York, N. Y., on Aug. 6, at the age of 72 years. Major Henning served with Union Army through the Civil War, and after the close of the war became interested in railways. He was General Manager of the Fort Scott, Kansas & Gulf R. R., Vice-President of the Long Island R. R., and President of the Florida Ry. & Navigation Co.

Mr. John B. Christoffel, a well-known manufacturer, died at his home in Brooklyn, N. Y., on Aug. 4. Mr. Christoffel was born in Brussels, Belgium, May 20, 1822, and at the age of 20 he became Superintendent of a cotton and paper mill for his father. He invented and made the first straw paper ever produced in 1848, and came to America in 1854. In 1867 he invented the boiler-tube cleaner, which he was manufacturing at time of his death.

Mr. De Witt Clinton Haskin, the originator of the Hudson River Tunnel, died at Buffalo, N. Y., on July 17 from the effects of a stroke of apoplexy, which had left him helpless for two years. Mr. Haskin was born in Pittstown, Rensselaer county, New York, in April, 1824. In 1837 his father moved to Dayton, O., where he ran a saw mill and a large farm, which now forms a portion of that city. After his father's death a few years later Mr. Haskin managed the farm and mill until 1849, when he went to California, the trip being made by steamer to Colon, and thence across the Isthmus, and thence by a sailing vessel to San Francisco. Mr. Haskin landed in San Francisco entirely without money and went to work in a hotel, where he succeeded so well that in two years he became the proprietor of the establishment and soon amassed quite a property. In 1856 Mr. Haskin came overland by stage and visited the principal Eastern cities. He returned to California in 1858 and began the construction of the California Pacific R. R., connecting the town of Marysville with San Francisco. The work proved a very difficult one principally for the reason that all material had to be shipped from the east around Cape Horn. The road was completed in 1869, and was soon afterwards purchased by the Central Pacific R. R. Co. Mr. Haskins then went to Utah, where he engaged in mining operations until 1872, when he sold a portion of his claim in the famous Emma Mine and came east. While crossing the Hudson River during a fog he perceived the advantages of a tunnel connecting Jersey City and New York and immediately began preparations toward the construction of such a thoroughfare. At his own expense Mr. Haskin made the necessary borings. The nature of the material penetrated, silt and quicksand, convinced him that some different method of construction would have to be employed than those commonly practiced, and he conceived the idea of using compressed air to balance the pressure of the water and silt until the masonry could be built. Patents on the pneumatic system of construction were secured and work was commenced, with what success is known by every engineer who has read the interesting history of that great enterprise. The application of compressed air to tunnel construction had been conceived and patented many years before by Lord Cochrane, of England, and it had been actually used on a small scale for tunnel work in France in 1869, but the credit is due to Mr. Haskin for having first applied the pneumatic method on a scale at all comparable with that at which it has since been employed and of having definitely demonstrated its enormous possibilities for tunnel construction.

ENGINEERING SOCIETIES.

COMING GENERAL MEETINGS.

CONNECTICUT CIVIL ENGINEERS' AND SURVEYORS' ASSOCIATION.
Aug. 14. Summer meeting at Bridgeport, Conn. Secy., G. K. Crandall, New London, Conn.

OHIO ELECTRIC LIGHT ASSOCIATION.
Aug. 14 to 16. Annual meeting at Toledo, O. Secy., A. W. Field, Columbus, O.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.
Aug. 16. At Paris. Secy., R. W. Pope, 26 Cortlandt St., New York city.

AMERICAN INSTITUTE OM MINING ENGINEERS.
Aug. 21 to 29. Excursion from Quebec. Secy., R. W. Raymond, P. O. Box 223, 99 John St., New York city.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Aug. 28 to 31. Annual meeting at Milwaukee, Wis. Secy., D. L. Fulton, Allegheny, Pa.

ASSOCIATION OF EDISON ILLUMINATING COMPANIES.
Sept. 4. Annual meeting at Saratoga Springs, N. Y. Secy., Wilson S. Howell, Newark, N. J.

CENTRAL STATES WATER-WORKS ASSOCIATION.
Sept. 4 to 6. Annual meeting at Columbus, O. Secy., John Fisher, P. O. Box 203, Hamilton, O.

IRON AND STEEL INSTITUTE OF GREAT BRITAIN.
Sept. 10. At Paris, France. Secy., Bennet H. Brough, 28 Victoria St., London, S. W., England.

STREET RAILWAY ASSOCIATION OF THE STATE OF NEW YORK.
Sept. 11 and 12. Fall meeting at Buffalo, N. Y. Secy., Henry A. Robinson, 621 Broadway, New York city.

AMERICAN BOILER MANUFACTURERS' ASSOCIATION.
Sept 18 to 20. Annual meeting at Cincinnati, O. Secy., J. D. Farasey, Cleveland, O.

NATIONAL ASSOCIATION OF MUNICIPAL ELECTRICIANS.
Sept. 25 to 27. Annual meeting at Pittsburg, Pa. Secy., Secy., Geo. H. F. Cottel, City Electrician, Boston, Mass.

INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS.
Oct. 25 to 27. Annual meeting of American Section at New York city. Secy., Richard L. Humphrey, City Hall, Philadelphia, Pa.

ENGINEERING ASSOCIATION OF THE SOUTH.—A meeting of the Birmingham, Ala., members of the Association was held on July 28, for the purpose of organizing a local section of the association in Alabama. The temporary officers elected were: P. Bryne, President; T. F. O'Brien, First Vice-President; G. D. Fitzhugh, Second Vice-President, and Geo. H. Harris, Secretary and Treasurer. P. Byrne, T. F. O'Brien, G. D. Fitzhugh, W. R. Starbuck and G. M. Braune were elected Directors. After a very successful meeting, adjournment was taken to Aug. 4. Geo. H. Harris, Secy.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.—The annual meeting will be held at Milwaukee, Wis., Aug. 28 to 31, when the following program will be presented. Address of Welcome on Behalf of the City of Milwaukee, by the Mayor; Report of the Committee on Municipal Data, by C. C. Brown, Chairman of the Commttee; Report of Special Committee on Municipal Statistics, by August Herrmann, Chairman of the Committee; "Uniform Accounting and National Municipal Statistics," by M. N. Baker; Report of the Committee on Street Paving, by Geo. W. Tillson, Chairman of the Committee; Report of Committee on Disposition of Garbage and Street Cleaning, by John Jones, Chairman of the Committee; Report of Committee on Sewerage and Sanitation, by W. K. Eldridge, Chairman of the Committee; Report of the Committee on Taxation and Assessments, by August Herrmann, Chairman of the Committee; "Municipal Sewerage Systems and Assessments for Same," by Geo. T. Bouten; Report of the Committee on City Government and Legislation, by Robert E. McMath, Chairman of the Committee; Report of the Committee on Municipal Franchises, by Andrew Rosewater, Chairman of the Committee; Report of the Committee on Review, by Geo. M. Ames, Chairman of the Committee; Report of the Committee on Electric Street Lighting, by F. W. Cappein, Chairman of the Committee; Report of the Committee on Park Development and Maintenance, by Prof. A. N. Talbot, Chairman of the Committee. Papers or discussions on the following subjects are expected: "Standard Construction of Asphalt Pavements," "Standard Construction of Granite Block Pavements," "Standard Construction of Medina Stone Block Pavements," "Standard Construction of Brick Pavements," "Wood Pavements in Chicago," "Wood Pavements in Indianapolis," "Methods of Conducting Cement Tests in Pavement Construction," "Tests of Asphalt," "Garbage Collection and Disposal," "Sewerage and Sanitation," "Water-Works and Water Supply," and "Park Development and Maintenance." D. L. Fulton, Secy.

NEW PUBLICATIONS.

CURRENTS IN THE GULF OF ST. LAWRENCE, including the Anticosti Region, Belle Isle and Cabot Straits. —Condensed from the Reports of the Survey of Tides and Currents for 1894, 1895 and 1896. Pub. Doc.; Minister of Marine and Fisheries, Ottawa, Canada. Paper; 8vo.; pp. 28.

The investigations which form the basis of this publication were made by Mr. W. Bell Dawson, and deal with the surface currents as experienced by mariners; also with the causes which influence the currents and the general circulation of the water in the Gulf of St. Lawrence.

CONNECTICUT CIVIL ENGINEERS AND SURVEYORS ASSOCIATION.—Report of Meetings held July 18, 1899, and Jan. 9, 1900. Secretary and Treasurer, Geo. K. Crandall, New London, Conn. Paper; 6×9 ins.; pp. 188; illustrated. 50 cts.

Among the reports and papers here given we will mention a "Description of the U. S. Coaling Station at New London, Conn.," by A. C. Lewerenz; "Disposal Division of the Improved Sewerage System of Providence, R. I.," by Herbert M. Knight; and "The New Water Power of the Hartford Electric Light Co.," by Prof. Wm. Lispenard Robb. A report of the January meeting was given in our issue of Jan. 11, 1900.

COLORADO AGRICULTURAL EXPERIMENT STATION. —Report for 1899. Prof. L. G. Carpenter, Director and Irrigation Engineer, Fort Collins, Colo. Published by the Station. Paper; 6 × 9 ins.; pp. 113; illustrations and tables.

Besides meteorological tables, including evaporation records, the principal matter in this report of interest to engineers is the section written by Professor Carpenter, as meteorologist and irrigation engineer. The account of studies of seepage gains and losses is continued. The work has been extended until it now covers about 500 miles on different streams of the State. River gagings and studies to determine the duty of water were also continued during the year, automatic recording instruments being used for both classes of work.

THE ARCHITECTURAL ANNUAL.—Published under the auspices of the Architectural League of America, and edited by Albert Kelsey. The Architectural Annual, 981 Chestnut St., Philadelphia, Pa. Cloth; 4to.; pp. 292; illustrated; $3.50.

The aim of this handsome publication is to record the growth and development of architecture not only from the artistic point of view, but also in regard to the proper grouping and treatment of buildings, thoroughfares, bridges, railway terminals, power stations and other structures erected to meet the utilitarian demands of modern city life. Thus the long list of contents includes the following papers: "The Municipal Building Problem in Cleveland," H. B. Briggs; "The Baltimore Conference on Municipal Art," George Kriehn; "Commercial Architecture," Wm. C. Furber, M. Am. Soc. C. E.; "The Science of Cities," "Lofty Buildings," "Public Toilet Facilities," "City Bridges," etc., etc. The book is fully and handsomely illustrated, and has a directory of architectural societies and schools.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½x6 ins., 6x9 ins., and 9x12 ins.)

OIL WELL MACHINERY.—Cardwell Machine Co., Richmond, Va. Paper; 9 × 6 ins.; pp. 48; illustrated.

This is a very complete and well-illustrated catalogue of machinery for the extraction of cotton-seed oil.

ICE-HARVESTING MACHINERY.—Gifford Bros., Hudson, N. Y. Paper; 10 × 7 ins.; pp. 34; illustrated.

Various types of ice elevators for raising ice into ice-houses are described and illustrated in this pamphlet.

RECORDING INSTRUMENTS.—The Bristol Co., Waterbury, Conn. Paper; 9 × 11 ins.; pp. 8; illustrated.

This is a partial list of the instruments manufactured by the above company for recording pressure, temperature and electricity.

WIRE ROPE.—Leschen-Macomber-Whyte Co., Chicago, Ill. Leather; 2½ × 4½ ins.

This is a small leather-covered, vest-pocket memorandum book, which may be had upon application to the above company.

ELECTRIC INSULATORS.—D. M. Steward Mfg. Co., Chattanooga, Tenn.

The above company has issued a number of leaflets describing the lava electric insulators, gas tips, slate pencils, etc., made by it.

ELECTRICAL BELLS AND PUSH BUTTONS.—Huebel & Manger, 286 Graham St., Brooklyn, N. Y. Paper; 6 × 9 ins; pp. 48; illustrated.

This pamphlet describes electrical bells and push-buttons and switches for the same.

STEAM ENGINES AND BOILERS AND STEAM FITTINGS.—Donegan & Swift, 6 Murray St., New York city. Paper; 8½ × 6 ins.; pp. 164; illustrated.

This is a very extensive catalogue of steam engines, boilers, pumps, steam fittings, etc.

SCREW-CUTTING TOOLS.—J. M. Carpenter Tap & Die Co., Pawtucket, R. I. Paper; 3½ × 6 ins.; pp. 112; illustrated.

This is an illustrated catalogue and price list of taps, dies, screw plates, die stocks, tap wrenches, etc.

CONTRACTORS' MACHINERY.—Carlin Machinery & Supply Co., 101 Lacock St., Allegheny, Pa. Paper; 3½ × 5½ ins.; pp. 26; illustrated.

This is a list of new and second-hand contractors' machinery now held in stock by the above company.

SAWING MACHINERY.—H. L. Beach, Montrose, Pa. Paper; 8 × 5 ins.; pp. 36; illustrated.

This catalogue describes divers classes of power wood-working machinery, such as cut-off saws, rip saws, grooving machines, mitering machines, scroll saws, etc.

PIPE-THREADING AND CUTTING MACHINES.—Bignall & Keeler Mfg. Co., Edwardsville, Ill. Paper; 4½ × 7 ins.; pp. 108; illustrated.

This is a catalog of tools for cutting and threading pipe. It contains many tables of value to steam fitters.

SMELTING FURNACES.—Union Smelter Mfg. Co., St. Louis, Mo. Paper; 3 × 6 ins.; pp. 32; illustrated.

This is a catalogue of smelting furnaces for copper, gold and silver ores. The manner of using the smelter manufactured by the above company is described in detail.

MACHINE TOOLS.—Newton Machine Tool Works, Vine and 24th Sts., Philadelphia, Pa. Cloth; 6 × 9 ins.; pp. 180; illustrated.

This book describes milling machines and rotary planing machines of various types and designed for special purposes.

CONVEYING MACHINERY.—C. W. Hunt Co., 45 Broadway, New York city. Paper; 3 × 6 ins.; pp. 16; illustrated.

This leaflet calls attention to the various classes of transmitting machinery manufactured by the above company.

TURBINE WATER WHEELS.—Humphrey Machine Co. Paper; 4½ × 6½ ins.; pp. 32; illustrated.

In this pamphlet are described turbine water wheels of the inward flow and downward-flow types. Tables are given showing the HP., speed and consumption of water at different heads.

STEAM SPECIALTIES.—Creamer Perfection Steam Specialties Co., Bayonne, N. J. Paper; 5½ × 6½ ins.; pp. 20; illustrated.

Pump governors and receivers, steam traps, boiler feeders, balance valves and pump regulating valves are described in this catalogue.

SMALL ELECTRICALLY-DRIVEN PUMPS.—The Emerson Electric Mfg. Co., St. Louis, Mo. Paper; 7 × 10 ins.; pp. 8; illustrated.

This pamphlet describes small pumping outfits for domestic use, the power being furnished by single-phase alternating-current motors.

STEAM PUMPS.—Dean Bros. Steam Pump Works, Indianapolis, Ind. Paper; 6 × 7 ins.; pp. 56; illustrated.

Half-tones and sectional elevations of the several types of steam pumps manufactured by the above company are given in this catalogue. It contains much tabulated information relating to hydraulics.

WATER-WHEEL GOVERNORS.—Lombard Water-Wheel Governor Co., 61 Hampshire St., Boston, Mass. Paper; 9 × 6 ins.; pp. 32; illustrated.

This catalogue describes the well-known Lombard governor which may be used for turbine and impulse water wheels and for large steam engines.

STEAM GAGES AND VALVES.—Crosby Steam Gage & Valve Co., 97 Oliver St., Boston, Mass. Cloth; 6½ × 9½ ins.; pp. 186; illustrated.

This handsomely bound and printed book is devoted to a description of steam gages, water gages, steam valves, blow-off valves, etc. Price lists are given.

ELECTRICAL SUPPLIES.—Gimbars & Hunt, 127 Fifth Ave., New York city. Paper; 8 × 11 ins.; pp. 80; illustrated.

This is a descriptive catalogue and price list of switches and switch-board fittings, panel-boards and feeder-boards, and automatic switches and motor-starters.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Aug. 9.	Bridge approaches	New York, N. Y.	July 12
Aug. 9.	Asylum buildings	Decatur, Ind.	June 14
Aug. 9.	Supplies	Tompkinsville (S. I.), N. Y.	July 19
Aug. 9.	Electric plant	New Iberia, La.	July 26
Aug. 9.	Water-works	New Iberia, La.	July 26
	Advertised, Engineering News, July 26.		
Aug. 10.	Combination bridge	Charlottetown, P.E.I.	July 26
Aug. 11.	Sewerage system	Lead, S. Dak.	Aug. 2
Aug. 11.	Electric machinery	Washington, D.C.	Aug. 2
Aug. 11.	Dredging	Chatham Harbor, Mass.	July 12
Aug. 11.	Street grading	Washington, D. C.	July 26
Aug. 13.	Bridges (10)	Wabash, Ind.	July 19
Aug. 13.	Sewage disposal plant	Lakewood, O.	July 26
Aug. 13.	Water pipe (9 miles)	Lakewood, O.	July 26
Aug. 13.	Library building	San Diego, Cal.	Aug. 2
Aug. 13.	Gravel road	Vincennes, Ind.	Aug. 2
Aug. 13.	Paving and sewers	Lafayette, Ind.	Aug. 9
Aug. 13.	Heating plant	Philadelphia, Pa.	Aug. 9
Aug. 14.	Asphalt paving	Union, N. J.	Aug. 9
Aug. 14.	Naval supplies, etc.	Washington, D. C.	Aug. 9
Aug. 14.	Hose wagon	St. Paul, Minn.	Aug. 9
Aug. 14.	Steel lighter	Philadelphia, Pa.	Aug. 9
Aug. 14.	Lumber	New London, Conn.	Aug. 9
Aug. 14.	Sewer system	Culpeper, Va.	Aug. 9
Aug. 14.	School building, etc.	Lawrence, Kan.	Aug. 2
Aug. 14.	Bridges (2)	Grand Island, Neb.	Aug. 2
Aug. 14.	Coaling plant	Frenchmen's Bay, Me.	July 19
Aug. 14.	Excavation, etc.	New York, N. Y.	July 12
	Advertised, Eng. News, July 12 to Aug. 2.		
Aug. 14.	Sewer conduit, etc.	Chicago, Ill.	July 26
Aug. 15.	Wharf, etc.	Fort Caswell, N. C.	July 26
Aug. 15.	Monuments	Pittsburg Landing, Tenn.	July 26
Aug. 15.	Pipe sewers	Elizabeth, N. J.	July 26
Aug. 15.	School house	Bristol, R. I.	July 26
Aug. 15.	Bridge (plate-girder)	South Bend, Ind.	July 26
Aug. 15.	Bridge	Jacksonville, Fla.	July 26
Aug. 15.	Water-works, etc.	Fort Recovery, O.	Aug. 2
	Advertised, Eng. News, Aug. 2 and 9.		
Aug. 15.	Electric plant	Fort Recovery, O.	Aug. 2
	Advertised, Eng. News, Aug. 2 and 9.		
Aug. 15.	College building	Ames, Ia.	Aug. 2
Aug. 15.	Levee construction	Memphis, Tenn.	Aug. 2
	Advertised, Eng. News, Aug. 2 and 9.		
Aug. 15.	Sewer bonds ($300,000)	Galveston, Tex.	Aug. 2
Aug. 15.	Street improvements	Cincinnati, O.	Aug. 9
Aug. 15.	Cement sidewalks	Lucknow, Ont.	Aug. 9
Aug. 15.	Draft apparatus	Washington, D. C.	Aug. 9
Aug. 15.	Sewer	New York, N. Y.	Aug. 9
Aug. 15.	Sewer	Waterford, N. Y.	Aug. 9
Aug. 15.	Sewer	West Hoboken, N. J.	Aug. 9
Aug. 15.	School house	Lake Mills, Ia.	Aug. 9
Aug. 15.	Sewer	Cincinnati, O.	Aug. 9
Aug. 15.	Breakwater	Chicago, Ill.	Aug. 9
Aug. 15.	Wooden bridges	New Castle, Va.	Aug. 9
Aug. 15.	Trestle bridge	New Whatcom, Wash.	Aug. 9
Aug. 15.	Cotton mill	Newnan, Ga.	Aug. 9
Aug. 16.	School house	Erie, Pa.	Aug. 9
Aug. 16.	Bridge	Eureka, Cal.	Aug. 2
Aug. 16.	Refining reservoir, etc.	Steelton, Pa.	July 26
	Advertised, Eng. News, July 26 and Aug. 2.		
Aug. 16.	Paving	Gallipolis, O.	July 26
Aug. 16.	Dredging	Portsmouth, N. H.	July 19
	Advertised, Eng. News, July 19 to Aug. 9.		
Aug. 16.	Hospital buildings (2)	Athens, O.	July 19
Aug. 16.	Paving	Findlay, O.	July 19
Aug. 16.	Valves, water pipe, etc.	Washington, D.C.	July 19
	Advertised, Eng. News, July 19 and 26.		
Aug. 17.	Brick and pipe sewers	Alexandria, Ind.	Aug. 2
	Advertised, Eng. News, Aug. 2 and 9.		
Aug. 17.	Brick paving	Pontiac, Ill.	Aug. 9
	Advertised, Engineering News, Aug. 9.		
Aug. 17.	Distilling plant	Santa Barbara, Cal.	Aug. 9
Aug. 17.	Wooden bridge	Downieville, Cal.	Aug. 9
Aug. 18.	Dredging	Tompkinsville, N. Y.	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.		
Aug. 18.	Bridge	New Bedford, Mass.	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.		
Aug. 18.	Army wagons	Jeffersonville, Ind.	Aug. 9
Aug. 18.	Library building	Washington, D. C.	Aug. 9
Aug. 18.	Paving	Napoleon, O.	Aug. 2
Aug. 18.	Brick paving	Akron, O.	Aug. 2
Aug. 18.	Macadam road	Morristown, Tenn.	Aug. 2
	Advertised, Engineering News, Aug. 2.		
Aug. 18.	Water pipe (500 tons)	Toledo, O.	Aug. 2
Aug. 18.	Jail building	Bennettsville, S. C.	July 12
Aug. 18.	Bridge	San Andreas, Cal.	July 26
Aug. 20.	Pipe sewers	Greenwich, Conn.	July 26
	Advertised, Eng. News, July 26 to Aug. 16.		
Aug. 20.	Pipe sewers	Dayton, O.	July 26
Aug. 20.	Electric lighting	Oskaloosa, Ia.	July 26
Aug. 20.	Building	Urbana, O.	Aug. 2
Aug. 20.	Pipe sewer	Salina, Kan.	Aug. 2
Aug. 20.	Bridge	San Jose, Cal.	Aug. 2
Aug. 20.	Constructing drain	Hibbert, Ont.	Aug. 2
Aug. 20.	Sewerage system	Oregon City, Ore.	Aug. 2
Aug. 20.	Postoffice building	Elgin, Ill.	Aug. 2
Aug. 20.	Sewers	Hackensack, N. J.	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.		
Aug. 20.	Sidewalks	Rome, N. Y.	Aug. 9
Aug. 20.	Hospital building	Danville, Ill.	Aug. 9
Aug. 20.	Electric plant, water-works	Durand, Mich.	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.		
Aug. 20.	Repairing heating plant	Boston, Mass.	Aug. 9
Aug. 20.	Railway	Wheaton, Ill.	Aug. 9
	Advertised, Engineering News, Aug. 9.		
Aug. 20.	Combination bridge	Quincy, Cal.	Aug. 9
Aug. 21.	Dredging Machinery	Biloxi, Miss.	Aug. 9
Aug. 21.	Postoffice building	St. Cloud, Minn.	Aug. 2
Aug. 21.	Sewer work	New York, N. Y.	Aug. 2
Aug. 21.	Sewerage tunnel	Lakewood, O.	Aug. 2
Aug. 21.	Sewer material	Lakewood, O.	Aug. 2
Aug. 21.	Administration building	Alexandria, Va.	Aug. 2
Aug. 21.	Court house	Blue Ridge, Ga.	July 5
Aug. 22.	Cement	Little Rock, Ark.	July 26
	Advertised, Eng. News, July 26 to Aug. 16.		
Aug. 22.	Canal	Chicago, Ill.	Aug. 2
	Advertised, Eng. News, Aug. 2 to 16.		
Aug. 22.	Indian buildings	Lathrop, Minn.	Aug. 2
Aug. 22.	Hospital buildings	Cleveland, O.	Aug. 2
Aug. 23.	Pumping engines (4)	Cleveland, O.	Aug. 2
Aug. 23.	Pipe sewers	Buffalo, N. Y.	Aug. 2
Aug. 23.	Bridge	Buckingham, Va.	Aug. 2
	Advertised, Engineering News, Aug. 2.		
Aug. 23.	School building	Tomah, Wis.	Aug. 2
Aug. 23.	Lock, etc.	Charleston, S. C.	July 26
	Advertised, Eng. News, July 26 to Aug. 16.		
Aug. 23.	Sewer	Findlay, O.	Aug. 9
Aug. 24.	Sea wall	West Point, N. Y.	July 26
	Advertised, Eng. News, July 26 to Aug. 16.		
Aug. 24.	Constructing canal	Ottawa, Ont.	Aug. 2
Aug. 24.	Dredging	Philadelphia, Pa.	Aug. 2
Aug. 24.	Sewers	Niles, O.	Aug. 2
Aug. 25.	Canal	Port Huron, Mich.	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.		
Aug. 25.	Steel bridges (5)	Anoka, Minn.	Aug. 9
Aug. 25.	Draw bridge	Stockton, Cal.	Aug. 9
Aug. 27.	Repairing asphalt paving	Dayton, O.	Aug. 9
Aug. 27.	Sewer system	Whitesboro, N. Y.	Aug. 9
	Advertised, Engineering News, Aug. 9.		
Aug. 27.	Paving	Lafayette, Ind.	Aug. 9
Aug. 27.	Sewer conduit	Chicago, Ill.	Aug. 9
	Advertised, Eng. News, Aug. 9 and [illegible]		
Aug. 27.	Electrical machinery	Toledo, O.	Aug. 9
Aug. 27.	Dredging	Astoria, Ore.	Aug. 9
	Advertised, Eng. News, Aug. 2 to [illegible]		
Aug. 27.	Cement walks	Wabash, Ind.	Aug. 2
Aug. 27.	Sewers	Port Clinton, O.	Aug. 2
Aug. 28.	Asphalt plant	Detroit, Mich.	Aug. 2
Aug. 29.	Hospital building	Shoshone Agency, Wyo.	Aug. 2
Aug. 29.	Officers' quarters	San Francisco, Cal.	Aug. 2
Aug. 29.	Sewer	Cleveland, O.	Aug. 9
Aug. 29.	Pipe sewers	Alliance, O.	Aug. 9
Aug. 30.	Scow	Snohomish, Wash.	Aug. 9
Aug. 30.	Asphalt paving	Lima, O.	Aug. 9
Aug. 30.	Guard house	Washington, D. C.	Aug. 9
Aug. 30.	Altering heating plant	Topeka, Kan.	Aug. 2
Aug. 30.	Trestle	Snohomish, Wash.	Aug. 2
Aug. 30.	Artesian well	Clayton, Ala.	Aug. 2
	Advertised, Eng. News, Aug. 2 and 9.		
Aug. 31.	Filling	Fort Caswell, N. C.	Aug. 2
	Advertised, Eng. News, Aug. 2 to 23.		
Aug. 31.	Electric lighting	Pensacola, Fla.	Aug. 2
Aug. 31.	Paving	Lima, O.	Aug. 9
Sept. 1.	Officers' quarters	West Point, N. Y.	Aug. 9
	Advertised, Eng. News, Aug. 9 to 23.		
Sept. 1.	Electric plant	Alliance, O.	Aug. 9
Sept. 1.	Pumping engine, etc.	Indianapolis, Ind.	July 12
Sept. 3.	Paving	San Antonio, Tex.	Aug. 2
Sept. 3.	Paving	West Shoals, Ind.	Aug. 2
Sept. 3.	Paving	Sandusky, O.	Aug. 9
Sept. 3.	Brick paving	Toledo, O.	Aug. 9
Sept. 4.	Public bath building	Albany, N. Y.	Aug. 9
Sept. 4.	Water-works	Jassy, Roumania	Aug. 9
Sept. 5.	Electric lighting	Tamaqua, Pa.	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.		
Sept. 5.	Pile bridge	Dillon, Mont.	Aug. 9
Sept. 10.	Post office building	Stockton, Cal.	Aug. 9
Sept. 11.	Pumping engines (2)	Detroit, Mich.	July 26
	Advertised, Engineering News, July 26.		
Sept. 12.	Dredging	Chicago, Ill.	July 19
Sept. 12.	Water-works	Hyattsville, Md.	Aug. 2
	Advertised, Eng. News, Aug 2 to 16.		
Sept. 15.	Water, sewer and light bonds	Nelson, B. C.	Aug. 2
Sept. 15.	Sewer and street bonds	Nelson, B. C.	Aug. 2
Nov. 15.	Battleships	Washington, D. C.	July 26
Sept. 17.	Library plans	San Antonio, Tex.	Aug. 2
Sept. 17.	Fog signal house	Buffalo, N. Y.	Aug. 9
	Advertised, Eng. News, Aug. 9 and 16.		
Sept. 26.	Socket pipe	The Hague, Holland.	Aug. 9
Sept. 30.	Engine	Wellington, N. Z.	Aug. 9
Oct. 5.	Remvoving wreck	Jan Juan, P. R.	Aug. 9
	Advertised, Eng. News, Aug. 9 to 30.		
Dec. 31.	Insulating gloves	Paris, France	Aug. 9
No date.	Bridge material	Talladega, Ala.	Aug. 2
"	Building materials	Darlington, O. Ter.	Aug. 2
"	Building materials	Shawnee, O. Ter.	Aug. 2
No date.	Buildings, etc.	Phoenix, Ariz.	Aug. 9

RAILWAYS.

ALTON & HUTTONSVILLE.—This company has been incorporated in West Virginia to build a road from Huttonsville, W. Va., to Bean's Mills, in Upshur County. The capital stock is $500,000. It is stated that the road will be a feeder of the West Virgina Central & Pittsburg Ry. J. D. Coffin and E. G. Wilson, Buckhannon, W. Va., are said to be interested.

BALTIMORE & OHIO.—It is reported that the company has decided to build a line from a point near New Wilmington to New Castle, Pa., where a connection will be made with the Pittsburg & Western. Surveys for this line are now being made.——J. M. Graham, Ch. Engr., Baltimore, Md., informs us that the matter of substituting electricity as motive power on the section between Cumberland and Grafton, W. Va., has not yet been seriously considered.

BANGOR & PORTLAND.—C. Miller, Pres., Bangor, Me., writes us that the construction of the line from Nazareth to Bath, Me., is completed and ready for operation. John C. Miller & Co. were the contractors.

BEAVER DAM.—Incorporated in Tennessee, with $10,000 capital stock, to build a road from a point on the state line, near Damascus, Va., in Johnson county, along Beaver Dam Creek to a point in the lower end of Shady Valley. E. E. Butler, R. E. Donnelly and E. E. Parry are interested.

BOSTON & MAINE.—It has been decided by the officials of this company to build a station at Wyoming, Mass., to cost about $22,000. The work, with other improvements, will probably be undertaken soon. H. Bissell, Ch. Engr., Boston, Mass.

CANTON & WELLSBORO.—A charter has been granted to this company to build a road to connect with the Buffalo & Susquehanna at Ansonia, Pa., to Canton, where a connection will be made with the Northern Central Ry. Surveys are now under way and the locations will be finished in about two months. It is stated that negotiations will soon be made for the capital, so that the construction may be started this year. F. A. Sawyer, Pres., Towanda; W. C. Sechrist, Secy., Canton, Pa.

CENTRAL OF GEORGIA.—The surveys for the line between Arlington and Dawson, Ga., are nearly completed. The road will probably be via Herod. Wm. Hunter, Ch. Engr., Savannah, Ga.

CHICAGO GREAT WESTERN.—W. H. Knowlton, Asst. Ch. Engr., St. Paul, Minn., informs us that the improvements contemplated by the company, for which about $3,000,000 will be expended, will include the relaying of track with heavy steel rails, the renewal of bridges, ballasting, new stone culverts, increased water and fuel supplies, new rolling stock, etc.

CHICAGO, MILWAUKEE & ST. PAUL.—Wisconsin parties are making efforts to have the company construct a branch line along the Peshtigo River. The company is considering the proposition. H. R. Williams, Gen. Mgr., Chicago, Ill.

COLORADO & NORTHWESTERN.—The officials of this company are considering the proposition of building an extension to Eldora, Colo., this fall. The most feasible route will be 16 miles in length. A party of officials recently went over the route preparatory to making a final decision on the matter. Chas. B. Culberton, Gen. Mgr., Boulder, Colo.

COLORADO & SOUTHERN.—A preliminary survey is said to have been completed for a line from Trinidad, Colo., to the San Luis Valley via Stonewall. H. W. Cowen, Ch. Engr., Denver, Colo.

DENVER & RIO GRANDE.—It is stated that the company has invited contractors to look over the first ten miles of the proposed route of the road up Texas Creek into the Wet Mountain Valley, with a view to bidding on the grading work. Bids will be called for in a few days. E. T. Jeffery, Pres., has recently made a tour of the route, and is said to have arranged with the citizens of West Cliff and Silver Cliff for the rights of way through those towns. The valley is a rich agricultural district. M. H. Rogers, Ch. Engr., Denver, Colo.

DETROIT & LIMA NORTHERN.—An order has been filed in the United States Court at Cincinnati authorizing the company to contract at once for the construction of eight miles of road between Lima, O., and South Adrian Junction upon a 28-ft. right of way. F. E. Dewey, Gen. Mgr., Detroit, Mich.

EL PASO, ROSWELL & NORTHWESTERN.—Reports state that surveys have been completed between Roswell, N. Mex., and El Paso, Tex., about 200 miles, for a road which will be known by this name. Connections will be made with the Atchison, Topeka & Santa Fe at Amarillo and with the Texas Pacific at Pecos.

GEORGIA.—The citizens of Hartwell have appointed a committee to confer with the Southern Ry. and the Seaboard Air Line, with a view of having an extension built to that city. D. C. Alford, Hartwell, may be able to give further information.

GULF, BEAUMONT & KANSAS CITY.—James F. Weed, Ch. Engr., Beaumont, Tex., informs us that five miles of the extension from Rogan to San Augustine have been graded and it is expected to reach San Augustine by September. The Old Colony Construction Co., Beaumont, is doing the construction, using 60-lb. rails. The grades southbound are 6% and northbound, 9%.

GULF, COLORADO & SANTA FE.—This line, which is a part of the Atchison, Topeka & Santa Fe system, is to be improved and brought up to the standard of the rest of the system. C. F. W. Felt, Ch. Engr., Galveston, Tex.

GULF & SHIP ISLAND.—Announcement, reported as offered, has been made to the effect that the company is now preparing to build several branch lines through the southern section of Mississippi, amounting to about 100 miles, for which contracts will be let in a few months. It is proposed to have the work completed early in the spring. J. B. Hatch, Ch. Engr., Gulfport, Miss.

JAMESTOWN MANUFACTURERS' TERMINAL.—Wm. F. Endress, Pres., Jamestown, N. Y., informs us that franchises for the company's line have been secured, but nothing further will be done until the charter is approved by the State railroad commissioners. The road will be 2½ miles long.

JAMESTOWN & CHAUTAUQUA.—The contract for extending this road from Mayville to Westfield, N. Y., has been let to Vandergrift & Co., Philadelphia, Pa. Work will be started immediately.

LITTLE FALLS & DOLGEVILLE.—The survey for the line connecting the Salisbury iron mine, near Little Falls, N. Y., with this road has been completed. The capital for building the line is being secured, according to reports. Chas. Sullivan, Receiver, Dolgeville.

LOUISVILLE & NASHVILLE.—Finnell Bros., Contractors, Tuscaloosa, Ala., are reported to have been awarded a contract for building a portion of the proposed road from Cullman, Ala., to the Warrior River.

MISSOURI, KANSAS & TEXAS.—The construction of a line from San Marcas to San Antonio, Tex., about 50 miles, is to be started within two weeks, according to reports. J. W. Petheram, Ch. Engr., Dallas, Tex.

MOSCOW, CAMDEN & SAN AUGUSTINE.—E. A. Carter, Treas., Camden, Tex., informs us that seven miles of the road is now in operation. The principal contractors are W. T. Bates, Denton, Tex., and J. W. Knox, Carrigan, Tex. Mr. Carter states that grading is now nearing completion for an extension of three miles, which is all that will be built for the present. The road will be 50 miles in length. N. T. Carter, Pres., Camden.

NEW YORK CENTRAL & HUDSON RIVER.—The contract for erecting a 22-stall engine house, including shop, office, ashpits, etc., at Utica, N. Y., to cost about $50,000, has been let to Grace & Hyde, 413 Tacoma St., Chicago, Ill. The work of abolishing the grade crossings on the main line at Buffalo has been about half completed; the other half, to cost about $1,500,000, will probably be completed within a year. Plans are now being prepared for a bridge to cost about $25,000, over Geddes road, Syracuse, under the New York Central and West Shore tracks. Bids are now being received for the Rochester & Irondequoit R. R. under-crossings at Windsor Beach, to cost about $21,000. The contract for the arch culvert and abutments in connection with the Rochester & Sodus Bay Ry. under-crossing, to cost about $15,000, has been let to T. H. Riddle, 35 Broadway, N. Y. Bids have been received for constructing a culvert to take care of Cowhorn Creek in Schenectady, to cost about $40,000; this is in connection with the proposed terminal improvements to be constructed here. The new bridge over the Canal at Schenectady will be ready for delivery in about two weeks. W. J. Wilgus, Ch. Engr., Grand Central Station, New York.

NEW YORK, CHICAGO & ST. LOUIS.—E. E. Hart, Engr., Cleveland, O., informs us that there is no intention of building a line from Knox, Ind., to the north end of Bass Lake, as recently reported.

OSWAYO.—A. G. McComb, Ch. Engr., Bradford, Pa., informs us that the contract for building this line, extending from Ceres, Pa., to Shingle House, Potter county, about five miles, has been let to the Interior Construction & Improvement Co., Detroit, Mich. Locations have been made and rights of way are secured. W. F. Copp, Pres., St. Marys, Pa.

PEOPLES.—Surveys are being made from Matamoras, Pa., to Milford, in the interest of this company. N. D. Pollard, Supt., Pottsville, Pa.

PITTSBURG, CINCINNATI, CHICAGO & ST. LOUIS.—It is stated that this company proposes to make extensive improvements at Hartford City, Ind. T. H. Johnson, Ch. Engr., Pittsburg, Pa.

PORTSMOUTH RIVER FRONT.—A mortgage has been secured by the Colonial Trust Co., Philadelphia, Pa., on the company's property for $200,000. It is proposed to extend the road to Gilmerton, Va., on the Norfolk & Western R. R.

SAN ANTONIO, LLANO & NORTHERN.—The board of trade of Strawn, Tex., has asked the property owners on the line of this proposed road to appoint committees to secure rights of way, depot grounds and bonuses of $1,000 a mile. It is stated that the capital has been secured and that the construction will be started as soon as the necessary preliminary arrangements are made. Geo. W. Angle, Gen. Mgr., San Antonio, Tex.

SANTA FE & ARIZONA SOUTHERN.—Plans are reported to be well under way for the construction of the road from Seligman, Ariz., to San Diego. It is reported that construction will soon be started. Wm. F. Botsford, Pres., Los Angeles, Cal.

SEABOARD AIR LINE.—Wm. W. Gwathmey, Jr., Ch. Engr., Portsmouth, Va., informs us that a 90-ft. girder span will be built over Tarrara Creek in Virginia for the Seaboard & Roanoke R. R. Materials are now on the ground. At Hamlet, N. C., a new passenger station will be built at a cost of $6,000, and a new roundhouse, to cost $15,000. Considerable yard improvements will also be made. Aside from this work there are no other improvements now under consideration.

SHAWMUT CONNECTING.—This company was incorporated Aug. 1, in New York, to operate a railway from the state line, on the Smithfield & Oleans R. R., to the Pittsburg, Shawmut & Northern R. R., in Genessee. The capital stock is $50,000. Henry S. Hastings, Frank S. Blair and D. D. Dickson, Angelica, N. Y., are directors.

TENNESSEE.—A convention will be held by citizens of Water Valley, Tenn., to consider the advisability of building a railway from Water Valley to either Friar's Point, Miss., or Helena, Ark.

UNION PACIFIC.—Reports state that preparations are being made to begin the construction of a new line between Evanston, Wyo., and Salt Lake City, Utah, eliminating the heavy grades of Echo Canon. L. B. Merriam, Res. Engr., Laramie, Wyo.

WESTERN NEW YORK & PENNSYLVANIA.—Arrangements are being made for extensive improvements to this line, which will include the reduction of grade, the elimination or modification of curves, the relaying of heavier rails, the rebuilding and strengthening of bridges, and a new bridge erected to obviate the necessity of switching trains back to the station at South Oil City, Pa. It is stated that the work will be done by the Pennsylvania R. R. R. D. McCreary, Ch. Engr., Buffalo, N. Y.

WESTERN WASHINGTON.—This company has announced its intention of extending its road from a point west of Houstonville, Pa., to a point near West Middletown, where mines are to be opened. A branch to Hickory is also proposed.

STREET AND ELECTRIC RAILWAYS

BANGOR, ME.—Local papers state that the extension of the Bangor, Hampden & Winterport Ry. Co. to Winterport will be built this fall. The high price of material prevents the immediate construction. H. L. Mitchell, Pres.

MANCHESTER, N. H.—It is stated that one of the electric lines in this town will be extended to Goffe's Falls and probably to Nashua.

NASSAU, N. H.—The proposition of building an electric road from this town to Pepperell, Mass., is being considered. The construction of the proposed Pepperell, Tynsboro & Nashua Electric Ry. is being agitated by the citizens of Pepperell. C. S. Collins, South Nassau, may be able to give further information.

BOSTON, MASS.—Frank E. Cotton, Woburn, informs us that applications have been made for franchises for the Boston & Concord St. Ry. Co. line, and after getting the franchises the company will be incorporated. R. W. Bahson, in care of C. S. Cummings & Co., Boston, may be able to give further information.

CLINTON, MASS.—The Worcester, Leominster & Fitchburg St. Ry. has petitioned the selectmen of Leominster, Sterling and West Boylston for franchises for the proposed road through those towns. No opposition is anticipated. A. S. Paton, Leominster; Henry F. Harris, West Boylston, and Chas. A. Kahley, Worcester, are interested.

MIDDLETON, MASS.—The Middleton & Danvers St. Ry. Co. has been incorporated with $32,000 capital stock, to build a street railway connecting those towns. J. Frank Porter, Danvers; A. Howe, Middleton, and Chas. M. Taber, New Bedford, are interested.

WAKEFIELD, MASS.—Chas. F. Woodward, Pres., Woburn & Boston St. Ry. Co., writes us that surveys have been made for the company's proposed line of 5½ miles, and rights of way have been petitioned for. No contracts have been let. The road will be operated by electricity, and will run from Woburn through Arlington and Lexington.

WORCESTER, MASS.—W. A. Bailey, 518 Main St., informs us that the Worcester & Southbridge St. Ry. Co. has just been incorporated to build an electric line 18 miles in length, which will extend through Worcester, Auburn, Oxford, Charlton and Southbridge. The capital is $200,000, and has been entirely secured. Nothing has been done towards securing the rights of way. Contracts will not be let for several months. Mr. Bailey states that the road will use the tracks of the Worcester & Webster St. Ry. Co. from North Oxford to Worcester. The company will not build power stations, as the Worcester & Webster St. Ry. will furnish the power.

PAWTUCKET, R. I.—The Union Traction Co. has submitted propositions to the council for the improvement of the street car service, which will involve the construction of 11 miles of additional track. The work, if carried out, will cost nearly $500,000. G. C. Tingley, Ch. Engr., Providence.

NORWICH, CONN.—W. L. Adams, Supt., Norwich St. Ry. Co., informs us that contracts for building the extension from Taftsville to Baltic, 4¼ miles, have been let, and work will be started this week. The company will have to purchase materials.

BUFFALO, N. Y.—The International Traction Co. will expend nearly $3,000,000 in making improvements to the railway system in this city. W. Caryl Ely, Pres.; Geo Chambers, Supt.

BUFFALO, N. Y.—B. L. Jones, Ellicott Square, writes us that rights of way for the Niagara Falls St. Ry. Co.'s line, in the city of Niagara Falls, have been secured, except certain crossing rights, from the railroad commissioners. The capital has been secured and contracts will be awarded soon after the decision is made by the railroad commissioners. Geo. A. Ricker, Ch. Engr., Buffalo.

FAIRPORT, N. Y.—It is stated that the state commissioners have granted the Rochester, Pittsford & Canandiagua Electric Ry. permission to build. The company will build a branch from Pittsford to Fairport simultaneously with the main line to Canandaigua and Victor. It is expected to have the road ready for operation by winter. J. P. Smith is interested.

LARCHMONT, N. Y.—Chas. A. Singer, Pres., Larchmont Horse Ry. Co., informs us that the electric line from Mamaroneck to Harrison is completed and in operation, and the remainder of the line, between New Rochelle and Larchmont, will be ready for operation in two weeks. The line is five miles long.

NEW YORK, N. Y.—The state board of railroad commissioners has granted the Metropolitan St. Ry. Co. authority to issue $7,000,000 new stock for the change from cable to underground electricity on Columbus and Lexington Aves. and Broadway, and changes from horse to electric storage batteries on 34th St. Crosstown Road. These expenditures for construction and equipment work will cost about $3,000,000.——The railroad commissioners have authorized the Central Park North & East River R. R. Co. to use an underground electric system in Dey St., between Greenwich and West Sts.

SCHENECTADY, N. Y.—Local papers state that preliminary arrangements are now being completed for the construction of the proposed improvements by the Schenectady Ry. Co. The improvements will include extensions. M. H. Schermerhorn, Supt.

SYRACUSE, N. Y.—A meeting of the stockholders of the Syracuse & Oneida Lake Electric Ry. Co. will soon be held for the purpose of considering the proposition of increasing the capital stock from $300,000 to $1,200,000. It is stated that the road will be built very soon. Contracts will probably be let this week. The line will be easily constructed, as little filling and grading will be required. Wm. B. Kirk, Pres.

TROY, N. Y.—A second hearing will soon be given on the petition of the Caldwell & Warrensburgh Electric R. R. Co. for a franchise to use the streets of Warrensburg for its line.

NEW BRUNSWICK, N. J.—The township committee has granted a right of way to the Perth Amboy Trolley Co.

TRENTON, N. J.—The construction of the New Jersey & Philadelphia St. Ry. Co. will be started as soon as matters relating to the rights of way are settled up, according to reports. The company is backed by Boston capital.

WASHINGTON, N. J.—Application will soon be made for a charter for the Phillipsburg, Belvidere & Washington Electric Ry. Co. It is stated that the line will be built next spring. M. P. McGraff, Supt. of the Worcester Construction Co., Worcester, Mass., is said to be interested.

BAYONNE, N. J.—Local papers state that the North Jersey St. Ry. Co. is planning to extend its Jackson Ave. line to Bergen Point. J. G. Elliott, Ch. Engr., Newark.

READING, PA.—Surveys are being made for the Temple Electric R. R. between Reading and Temple. The work of laying tracks will begin shortly, and the first section will be completed by Oct. 1.

SOUTH BETHLEHEM, PA.—Local papers state that the Slate Belt Electric Ry. Co. has petitioned for an extension to its system in Pen Argyl, Wind Gap and Nazareth. The road is owned by Allentown capitalists.

WASHINGTON, D. C.—Jas. B. Lackey, Secy., Washington & Rockville Ry. Co., informs us that the materials for the extension through Rockville are now on the ground. The capital is secured.

WHEELING, W. VA.—We are informed that the survey for 10 miles of a 16½-mile electric road, to be built by the Northern Ohio Valley Electric Co., has been completed. A charter has been granted, and officers will be elected Aug. 21. Franchises will be had this week. Robt. Hazlett, Ch. Engr., Wheeling.

BILOXI, MISS.—W. L. Covel, Ch. Engr. and Gen. Mgr., Gulf Coast R. R. Co., informs us that contracts for constructing the 32 miles of road for this company are nearly all closed. The road will run within 200 ft. of the Gulf of Mexico for a distance of 28 miles. A. M. Dahlgren, Pres.

AKRON, O.—The street railway power house is reported to have been destroyed by fire July 29. Reported loss, about $25,000.

BOWLING GREEN, O.—It is stated that the organization of a company to build an electric railway to extend from Plumberville through Scotch Ridge, Bowling Green and Weston to Grand Rapids, is being considered by the capitalists of this place. It is proposed to capitalize the company at $100,000.

COLUMBUS, O.—The Dayton & Germantown Traction Co. has increased its capital stock from $10,000 to $450,000.——The Dayton, New Carlisle & St. Paris Traction Co. has been incorporated with $1,350,000 capital stock to construct a road from Dayton to New Carlisle, and from Dayton to St. Paris, passing through Montgomery, Miami, Clarke and Champaign counties. B. N. Rannells, Chas. E. Layton and John A. Broke are interested.

DAYTON, O.—J. E. Lowes, Pres., Northern Traction Co., informs us that the following contracts have been let for constructing the company's line: Bruno Ritty, Dayton, track work; Chase Construction Co., Detroit, Mich., line work; Buckeye Engine Co., Salem, engines; Aullman & Taylor, boilers; Westinghouse Electric & Mfg. Co., Pittsburg, Pa., generators; Steel Motor Co., Johnstown, Pa., motors; Christiancy Co., Milwaukee, Wis., air brakes; Ware & Moodie Co., Dayton, steampiping, and the Electric Storage Battery Co., Philadelphia, Pa., storage batteries. The road will be forty miles long, and the contract calls for its completion by April 1, 1901. The power house will be located in Brookville. Chas. La Rue, Ch. Engr.

WARREN, O.—The county commissioners have granted the Mahoning Valley & Trumbull Electric Ry. Co. a franchise for a single track from Tibbetts' Corners to Warren, about six miles. Construction will be started at once. A. A. Anderson, Mgr., Youngstown.

BRAZIL, IND.—A scheme is on foot to build an electric railway between Brazil and Diamond, touching Benwood, Cardonia, Carbon and Perth.

INDIANAPOLIS, IND.—It is stated that articles of incorporation will soon be filed by Joseph H. Larimer, Peru, for an electric railway from Ft. Wayne to this city.

MARION, IND.—An electric road is being promoted by W. C. Speaker, Warren, to run from this city to Montpelier, 21 miles. The center will be at Arcana, from which spurs will be run to Van Buren and Upland.

RUSHVILLE, IND.—A. L. Stewart, Ch. Engr., Rushville & Brookville Traction Co., informs us that most of the capital has been secured and contracts will be let this fall. No progress has been made in securing the right of way. The road will be 30 miles long, and will extend from Rushville through New Salem, Andersonville, Metomora and Brookville.

DETROIT, MICH.—It is stated that the contract for constructing the Flint, Saginaw & Bay City Electric Ry. has been let to the International Construction Co. The road will be 50 miles in length and will cost about $800,000.

CHICAGO, ILL.—E. R. Gilbert, Ch. Engr., 88th St. and Vincennes Road, Chicago, informs us that the contracts for changing the motive power on the Chicago Electric Traction Co.'s 30-mile line from storage battery to trolley, has been let to L. E. Myers, Chicago, for the overhead work and bonding, and to B. J. Arnold, Chicago, for the power station.

WAUKEGAN, ILL.—The Chicago & Milwaukee Electric Ry. has asked the village of Lake Bluff for an amended franchise for an extension of 50 years, with a privilege to build to Libertyville. The company will pay $12,500 for the grant.

WHEATON, ILL.—Bids are wanted by the Aurora, Wheaton & Chicago Ry. Co., Room 1409, 100 Washington St., Chicago, until Aug. 20, for constructing its roadbed, as stated in our advertising columns.

APPLETON, WIS.—It is reported that surveys will be started this month for the proposed electric line between Berlin, Waupaca, New London, Wautoma and Weyauwega. The road will cost about $600,000. A. L. Hutchinson, Weyauwega, is the chief promoter.

KANSAS CITY, MO.—Reports state that capitalists are planning a subway or tunnel street railway from the vicinity of Brush Creek to the Belt Line in Kansas City. A survey has been made. The survey contemplates a tunnel about 4,000 ft. in length. Wm. E. Winner is said to be interested.

ST. LOUIS, MO.—The Elevated Ry. Construction Co. has been incorporated with $100,000 capital stock to build an elevated railway in this city. J. L. La Prelle and C. W. Sargent are interested.

FT. WORTH, TEX.—J. T. Voss, Pres., Glenwood & Polytechnic St. Ry., writes us that a preliminary survey is being made for the company's electric line, which will extend from this city to Dallas, about 32 miles. It is expected to have profiles and estimates ready within 30 days, when contracts will be let for construction. F. C. Hurd, Ch. Engr., Ft. Worth.

OKLAHOMA CITY, OKLA.—Geo. C. Kelley, Gen. Mgr. and Ch. Engr., 18 Broadway, Oklahoma City, informs us that surveys are now in progress for the Oklahoma City Land & Electric Ry. Co.'s line, which will be about eight miles in length. Contracts will soon be let. J. M. Lindsay, Pres., Gainesville, Tex.

EL PASO, TEX.—J. A. Hapfin informs us that the El Paso & Juarez Traction Co.'s line will be rebuilt, and electricity will be substituted for mule power. The road extends from El Paso, Tex., to Cindad Juarez, Mex., about four miles.

SAN FRANCISCO, CAL.—Local papers state that the Market St. Ry. Co. has notified the board of supervisors of its intention to construct electric railways on downtown streets.

BERLIN, ONT.—The contract for building the electric railway from Berlin to Preston is reported to have been let to A. A. McDonald.

ELECTRIC LIGHT AND POWER.

NEW CASTLE, PA.—Press reports state that the council has passed a resolution providing for the erection of a municipal plant.

TAMAQUA, PA.—Bids are asked until Sept. 5 for furnishing 80 2,000-c. p. arc lights for from one to ten years from Jan. 1, 1901, population 8,000, as stated in our advertising columns. W. F. Leopold, Town Clk.

RADFORD, VA.—We are informed that bids will be received about Sept. 1 for enlarging the plant of the Radford Electric Light & Power Co., so as to operate about 100 2,000-c. p. arc and 3,000 16-c. p. incandescent lights, to cost about $20,000. Two 75-K-W. alternators, one 100-K-W. 500-volt, direct connected, street railway generator, turbines to work under 21 ft. head of 18,306 cu. ft. of water a minute, and about 17 miles of wire, lamps, etc., will be required. F. S. Pickle, Secy.

BIRMINGHAM, ALA.—F. W. Turpin, Secy. Irondale Water, Light & Power Co., writes us that bids will be received until about Sept. 1 for erecting a steel power house, 50 x 150, to cost about $75,000, and equipped with a 2,500,000-gallon compound condensing pump, two 150-HP. boilers and a 300-HP. compound condensing engine (Corliss). R. R. Zell, Engr., 2004 Third Ave.

PRATTVILLE, ALA.—J. C. Burns, Mayor, writes us that the proposed plant will not be erected this year.

SHELBY, ALA.—It is stated that the Shelby Iron Co. will erect an electric plant at its works.

CHATTANOOGA, TENN.—We are informed that bids are now being received for rebuilding the burned plant of the Chattanoga Rapid Transit Co., to cost about $25,000. Wm. B. Royster, Secy.; Adams & Schneider, Engrs.

COVINGTON, KY.—The question of issuing $50,000 in bonds for erecting a plant will be voted on at the November election, according to reports.

DAYTON, KY.—H. M. Stegeman, Pres., writes us that bids have been received for erecting the plant of the Dayton Electric Light & Power Co., to cost about $25,000. This plant will be owned and operated by the Wadsworth Watch Case Co. D. J. Hauss, Engr., Cincinnati, O.

ALLIANCE, O.—O. W. Pfouts, Cy. Engr., writes us that bids will be received about Sept. 1 for erecting a plant to operate about 150 2,000-c.p. arc and 3,500 16-c.p. incandescent lights, to cost about $35,000. The plant will have direct-connected engines, alternating-current generators and water-tube or marine-type boilers.

TOLEDO, O.—Bids are asked until August 27 for installing three engines and three dynamos at the Toledo State Hospital. H. A. Tobey, Supt.; Charles Foster, Pres.

DUNKIRK, IND.—We are informed that the Consolidated Water & Light Co., The Rookery, Chicago, Ill., has been awarded the contract for erecting a plant and waterworks here, to cost about $35,000. J. H. Brown, Pres.

RICHMOND, IND.—We are informed that plans are now being prepared for a municipal plant.

DURAND, MICH.—Bids are asked until Aug. 20 for erecting a plant and water-works, as stated in our advertising columns. H. L. Izor, Village Clk.

MAYVILLE, MICH.—Bryants sawmill and the electric plant were recently burned, according to reports; loss, about $7,000.

NEOGA, ILL.—We are informed that bids will be received in about two weeks for erecting water-works and a plant, to operate 25 200-c.p. arc and 800 16-c.p. incandescent lights, to cost about $17,000. A test well is now now being put down. J. D. Wallace, Engr., Champaign.

OLIVIA, MINN.—The following bids are said to have been received July 23 by E. L. Depue, Village Pres. for erecting a plant and water tank, (1) being for water tower; (2) power plant; (3) electric plant; (4) plant complete: Fairbanks, Morse & Co., St. Paul Minn., (1) $4,440 (accepted); J. G. Robertson, St. Paul, Minn., (2) $2,970 (accepted); Triumph Electric Co., Cincinnati, Ohio, (3) $3,197 (accepted); Wm. Windhorst, Olivia, Minn., (2) $2,490; W. I. Gray & Co., Minneapolis, Minn., (4) $10,-255; Fort Wayne Electric Works, Fort Wayne, Ind., (3) $3,350; John Salstrom, Olivia, Minn., (2) $2,588; Northern Electrical Mfg. Co., Madison, Wis., (3) $3,398.

TEKAMAH, NEB.—W. G. Sears writes us that the question of erecting a plant is only being talked of at present.

KIRKWOOD, MO.—Press reports that that this town recently voted to issue $17,000 in bonds for erecting a plant.

WEST PLAINS, MO.—This town recently voted at a special election to issue $27,500 in bonds for erecting a plant and water-works, according to reports.

HILLSBORO, TEX.—Reports state that this town voted at a special election, July 24, against the proposed issue of $6,000 in bonds for erecting a plant.

SPRINGHILL, N. S.—It is stated that the council has decided to erect a municipal plant.

NELSON, B. C.—This city will sell Sept. 15 $15,000 in bonds for extending the lighting system. John Houston, Mayor.

HESPELER, ONT.—This town is said to have purchased the plant of J. S. Schantz, and will install an incandescent system in connection with it.

NEWMARKET, ONT.—A special election will shortly be held, according to reports, to vote on the question of issuing $10,000 in bonds for erecting a plant and waterworks.

BRIDGES.

BANGOR, ME.—The following bids have been received for rebuilding the piers of the bridge over the Kenduskeag stream at Franklin St.: Davis & Grady, $6,952; David Brown, $7,850; G. M. Batchelder, $8,045; Isaac Lunt, $6,970; W. H. Constantine, $6,970; W. F. Perry, $8,063; William D. Smith, $6,698.——The county commissioners have rejected all the bids received for constructing the granite abutments for the bridge to be built over the Millinocket stream to connect the county road with Millinocket village. They were too high. The specifications will be altered and new bids will be called for.

GOFFSTOWN, N. H.—A new steel bridge will be built in this town to replace a wooden structure.

NEW BEDFORD, MASS.—Bids are asked until Aug. 18 for constructing the New Bedford and Fairhaven bridge, as stated in our advertising columns. Wm. F. Williams, Cy. Engr.

NORTH ADAMS, MASS.—The following bids were received by J. L. Temple, Comr. Pub. Wks., on Aug. 4, for building the steel superstructure of two plate girder bridges, advertised in Engineering News; (1) includes old bridge as part of payment, (2) does not include old bridge:

	1.	2.
Hewton C. Bond, North Adams, Mass.	$11,880	$12,780
King Bridge Co., Cleveland, O.	13,273	13,273
Berlin Iron Bridge Co., E. Berlin, Conn.	12,225	13,115
Groton Bridge Co, Groton, Mass.	12,505	13,480
Canton Bridge Co., Canton, O.	.....	13,523
N. E. Structural Co., Boston, Mass.	.....	16,035

BRIDGEPORT, CONN.—The council's street committee has awarded the contract for building the Arctic St. bridge to Dowling & Bottomley, at $5,300. It was recently announced that all bids had been rejected and that new ones would be called for.

MIDDLETOWN, CONN.—The question of building a stone arch bridge at Zoar is being considered.

TORRINGTON, CONN.—At a recent town meeting the selectmen voted to build two bridges over the Naugatuck River on East Main St., one to cost $3,300 and the other $1,200.

BUFFALO, N. Y.—The building committee of the park board have received the following bids for remodeling the bridge over Gala Water: Runnill & Carter, $44,900; Henry Schaefer's Sons, $50,734; J. N. Tilden, $53,426.

DUNDEE, N. Y.—The town board has condemned the old wooden bridge over Big Stream, in this town. A new structure will probably be erected.

RIVERHEAD (L. I.), N. Y.—The county supervisors have decided to build a new iron bridge connecting Sag Harbor and North Haven, to cost about $15,000.

ROME, N. Y.—The superintendent of public works has declined to approve the plan of the Rome City St. Ry. Co. to strengthen the bridge across the Erie Canal at South James St., so that street cars can cross the bridge. A new structure is necessary.

PLAINFIELD, N. J.—The following bids were received by the joint committee from the boards of freeholders of Union, Middlesex and Somerset counties for constructing a 20 x 50-ft. steel truss bridge over Green Brook on Jefferson Ave.: Variety Iron Works, $1,550; Dover Boiler Works, $1,497; Toledo Bridge Co., $1,535; Canton Bridge Co., $1,510; Dean & Westbrook, $1,530; F. R. Long & Co., $1,489; Wrought-Iron Bridge Co., $1,500; W. T. Kirk, Plainfield, N. J., $1,449 (contract awarded). William Farrier was awarded the contract for the masonry work at $558.

MEADVILLE, PA.—The county commissioners have awarded contracts for a new iron bridge over French Creek, at Saegertown, to have one span 204 ft. long, and for repairng the bridge at Miller's Station and Custards to the Youngstown Bridge Co., at $4,795, $616 and $378 respectively.

PHILADELPHIA, PA.—Superintendent of Public Buildings Eyre has selected W. H. Gulick, Phoenixville, to prepare plans and specifications for the state bridge, to be built over the Clarion River in Clarion county, at a cost of about $40,000.

PITTSBURG, PA.—Local papers state that the Pittsburg & Lake Erie R. R. Co. is making arrangements for the construction of a four-span steel bridge across the back channel between the tracks and Neville Island, about 10 miles west of this city.

BALTIMORE, MD.—The question of building a new bridge on Eastern Ave., over the Back River, is being considered by the commissioners.——The county commissioners have been petitioned to build a bridge over the Patapsco River at Avalen for the purpose of connecting Howard and Baltimore counties.

NEW CASTLE, VA.—Bids are asked until Aug. 15 for building a wooden bridge and approaches at this place over the Pamounkey River, to have a 40-ft. draw. T. D. P. Moncure, Comr., Aylett, Va.

INDEPENDENCE, O.—The contract for building a bridge over the canal and river at eight-mile lock, in this place, has been awarded to the Variety Iron Works, at $11,994. The masonry and excavation work was let to Williams Bros. & Morse, of this place, at $7,865.

STEUBENVILLE, O.—Reports state that the Pennsylvania R. R. Co. is preparing for the erection of a new bridge to span the Ohio River below this city.

INDIANAPOLIS, IND.—The following bids were received Aug. 1 by Harry B. Smith, County Audr., for constructing a stone arch bridge over Lick Creek:

	Bridge on Churchman Rd.	Bridge on Brookville Rd.
Koss & Fritz	$3,226	$3,272
Fritz & Frazier	4,667	4,864
Wm. Fife	2,490	*2,790
H. W. Tielking	5,130	4,981
Samuel Robins	3,050	3,150
Gansberg & Roney	4,100	4,600
J. K. Cooper & Son	4,086	4,227
W. S. Fries	3,082	3,168

*Or both bridges for $5,000; accepted. All bidders of Indianapolis except W. S. Fries, Greenfield, Ind.

ST. JOSEPH, MICH.—The Indiana, Illinois & Iowa R. R. Co. proposes to build a draw-bridge across the St. Joseph River on the extension of its line to Benton Harbor. F. H. Mudge, Engr. M. W., Kankakee, Ill.

CEDAR FALLS, IA.—It is stated that a new drawbridge across the Cedar River will be built by the county supervisors. It is expected that the structure will be 372 ft. long and 32 ft. wide.

ANOKA, MINN.—Bids are asked until Aug. 25 for constructing five steel county bridges, according to reports. W. R. Gillis.

DILLON, MONT.—Bids are asked until Sept. 5 for constructing a pile bridge 75 ft. in length, across the north branch of the Big Hole River on the county road, according to reports. Geo. G. Taylor, County Clk.

GREAT FALLS, MONT.—J. G. Patterson, Res. Engr. Montana Central Ry., informs us that surveys for the proposed bridge crossing the Missouri River, at Rainbow Falls, have not been completed. No plans are made.

ST. JOSEPH, MO.—It is stated that the Chicago, Burlington & Quincy R. R. is contemplating some improvements west of this town, which include a new steel bridge over the Nemaha River, to cost about $20,000.

NEW WHATCOM, WASH.—Bids are asked until Aug. 15 for constructing a trestle bridge on road 63, according to reports. Alex. Van Wyck, Clk., Bd. County Comrs.

SNOHOMISH, WASH.—Bids are asked until Aug. 30, according to reports, for building a trestle from Eby bridge to the Marysville road. T. E. Headlee, Clk. Bd.

ALTURAS, CAL.—The board of supervisors will receive bids for building a bridge across the Pitt River, southwest of this town. Plans and specifications are now on file with the clerk.

BLUE LAKE, CAL.—The supervisors have authorized Supervisor Pine to receive bids for constructing a bridge across Boulder Creek.

DOWNIEVILLE, CAL.—Bids are asked until Aug. 17 for building a wooden bridge across the north fork of the Yuba River, in Indian Valley, according to reports. Henry E. Quigley, Clk. Bd. Supervisors.

QUINCY, CAL.—Bids are asked until Aug. 20, according to reports, for constructing a combination steel and iron bridge across the Chipman Cut in Big Meadows, to be completed by Nov. 15. H. C. Flourney, County Clk.

STOCKTON, CAL.—Bids are wanted by the county supervisors until Aug. 25 for building a drawbridge across the San Joaquin River at Brandts Ferry.

STRATFORD, ONT.—August Smith, Cy. Engr., writes us that the contract for the masonry work on the bridge over the Avon River at John St. was let Aug. 1 to McDonald & Dunn, Stratford. The superstructure was let to the Stratford Bridge Co. The structure will cost about $832.

BUILDINGS.

BOSTON, MASS.—Bids are asked until August 20 for enlarging the electric wiring and lighting system, for repairing the heating and ventilating apparatus, and for extending the mezzanine floor at the U. S. building. Jas. K. Taylor, Supv. Architect., Treasury Dept., Washington, D. C.——The contract for the steel work in the new 8-story Liberty Square Bldg., has been let to the New England Structural Co., 166 Devonshire St.

CAMBRIDGE, MASS.—Wm. H. Gray, Supt. Bldgs., writes us that bids will be received about Sept. 1 for erecting a 3-story brick school house, 114 x 105 ft., equipped with steam heat, gas and electric lights, to cost about $80,000. Geo. Fogerty, Arch., 631 Massachusetts Ave.

MILFORD, MASS.—The building committee is said to have let the contract for erecting the new 3-story stone high school building, 96 x 73 ft., to Dillon Bros., at $49,853.

SOMERVILLE, MASS.—The board of aldermen has authorized the erection of a new schoolhouse on Bolton St., to cost about $40,000, and also one on Willow Ave., to cost about $45,000.

FORT ADAMS, R. I.—Bids are asked until August 12 for removing the old hospital building at this post. H. P. Young, Constructing, Q. M., 209 Thames St., Newport.

NEW HAVEN, CONN.—We are informed that no steps will be taken toward erecting the new high school, to cost about $250,000, until the appropriation is made, which will probably be done this month. G. T. Hewlett, Clk. Bd. Education.

ALBANY, N. Y.—Bids are asked until Sept. 4 for erecting a new public bath building. Isidore Wachsman, Clk.

BROOKLYN, N. Y.—The following bids were received Aug. 7, by the board of education, 59th St. and Park Ave., New York, for installing heating, ventilating and electric lighting systems in public school No. 102: Frank Dobson, 218 E. 42d St., New York, $18,970; Blake & Williams, 362 West Broadway, New York, $19,128; John Neals Sons, 218 Centre St., New York, $19,763; N. Y. Steam Fitting Co., 137 Elm St., New York, $19,960; E. Reitzler, 178 Centre St., New York, $19,968; Williams & Gerstle, 44th St. and First Ave., New York, $19,975; Evans, Almiral & Co., 44 Dey St., New York, $20,333; Walker & Chambers, 50 East 20th St., New York, $20,350; John Hankin & Son, $20,987; Phillips, Dorp & Co., 56 Pearl St., $23,582.

BUFFALO, N. Y.—J. W. Daniels, Pres., Eastern Elevator Co., writes us that the steel grain elevator which was recently burned will be replaced by one with a capacity of about 1,200,000 bushels, to cost about $300,000. No architect has as yet been engaged.

MEDINA, N. Y.—The State Board of Armory Commissioners, Albany, is said to have let the contract for erecting the armory here to Filkins & De Graff, at $42,845.

NEWARK, N. Y.—We are informed that the contract for erecting the new public library building has been let. E. K. Burnham, Pres.

NEW YORK, N Y.—It is stated that the New York Produce Exchange Bank will erect a 12-story stone bank and office building at 8 and 10 Broadway.——Neville & Bagge, 217 West 125th St., are said to be preparing plans for a 7-story brick apartment house at 103d St. and Broadway, to cost about $300,000, for Daily & Carlson.

NEW YORK, N. Y.—Plans have been filed by C. M. Simmonds, Yonkers, N. Y., for five 4-story brick tenements at Beach and Westchester Aves., to cost about $71,000. U. S. Bandesson, Arch., 193 Beach Ave.; by John Acker, 370 Washington St., Newark, N. J., for four 5-story brick tenements, 27 x 85 ft., at 112th St., near Fifth Ave., to cost about $80,000. Charles Stegmayer, Arch., 306 East 82d St.; by Isaac L. Rice, 100 Broadway, for a 4 and 5-story brick and stone dwelling, 71 x 87 ft., at Riverside Drive and 89th St., to cost about $200,000. Herts & Tallant, Archs., 32 East 28th St.

TARRYTOWN, N. Y.—Press reports state that the Rand Drill Co. will erect an addition, 280 x 40 ft., to its plant on Beekman Ave.

UTICA, N. Y.—The contract for erecting a new 22-stall engine house, to cost about $50,000, for the N. Y. C. & H. R. R. R. Co. has been let to Grace & Hyde, 413 Tacoma St., Chicago, Ill. W. J. Wilgus, Ch. Engr., Grand Central Station, New York, N. Y

WEST POINT, N. Y.—Bids are asked until Sept. 1 for constructing three double sets of officers' quarters, as stated in our advertising columns. Address Q. M., U.S.A.

WILDWOOD, N. J.—Willis G. Hale, Weightman Bldg., Philadelphia, Pa., is said to be preparing plans for a 5-story brick hotel building, 156 x 76 ft., here, to cost about $150,000.

DOWNINGTON, PA.—The question of erecting a new town hall is being considered, according to reports.

EASTON, PA.—We are informed that bids will probably be received next week for erecting the new chemical laboratory building for Lafayette College. Chas. W. Bolton & Co., Archs., 1007 Witherspoon Bldg., Philadelphia.

ERIE, PA.—Bids are asked until August 16 for erecting a ten-room brick schoolhouse on East Ave. Bond, $20,000. Charles E. Shenk, Chn. Com. on Bldgs. and Grounds; Chas. P. Cody, Arch., Bowning Bldg.

FRANKLIN, PA.—We are informed that the new school house will be two stories high, 136 x 136 ft., of brick, and will cost about $50,000. Bids will soon be received for its erection. Owsley Boucherle, Arch., Wicks Bank Bldg., Youngstown, O.

LINCOLN, PA.—W. L. Plack, 1403 Filbert St., Philadelphia, is preparing plans for a gymnasium building for Lincoln University.

PHILADELPHIA, PA.—Bids are asked until August 13 for installing an elevator and heating apparatus in the new schoolhouse at the Schuylkill Arsenal. John V. Furey, Deputy Q. M. Gen., U. S. A., 1428 Arch St.——Chas. W. Bolton & Co., 1007 Witherspoon Bldg., write us that they will receive bids next week for a stone church building, 80 x 134 ft. and also a parsonage for the Fourth Reformed Church, Manayunk; also that they are preparing plans and will receive bids in two or three weeks for a new Lutheran church building at 12th St. and Lehigh Ave.——The building committee of St. Elizabeth's R. C. Church has adopted the plans of Henry D. Dagit, 435 Chestnut St., for the new parochial school building, at 23d St. and Montgomery Ave., to cost about $60,000.—Plans are said to have been prepared by Carl P. Berger, 905 Walnut St., for a 12-story stone office building, 92 x 36 ft., at 1416 and 1418 South Penn Square, for Max Levy.——Stacey Reeves & Son, 1611 Filbert St., have prepared plans for a 6-story building, 144 x 120 ft., on Filbert, near Seventh Ave., for Let Bros.

PHILADELPHIA, PA.—Herman Miller, 1420 Chestnut St., has prepared plans for a 2-story brick and stone building for the Southwestern National Bank, at Broad and South Sts.——Roberts & Seeler, Real Estate Trust Bldg., are receiving bids for an office building and power plant at Fifth and Liberty Sts. They have let the contract for alterations, in the Union League Bldg. to Doyle & Doak, 1509 Sansom St.——Robert Wilson, 12th and Walnut Sts., is receiving bids for 50 2 and 3-story dwellings at 52d and Race Sts.——Charles McCaul, 10 North 11th St., will sublet contracts at once for the new building at 57th St. and Woodland Ave., for the Bell Telephone Co.

PITTSBURG, PA.—Struthers & Hannah, 4 Eighth St., have prepared plans for a residence on Staunton Ave., for Jas. Scott., Supt. Isabella Furnaces, to cost about $40,000.——F. H. De Arment, 605 Penn Bdg., is preparing plans for three apartment houses in Homewood, to cost about $40,000.

BALTIMORE, MD.—J. S. Smith writes us that contracts were to have been let August 8 for erecting a 1-story modern fertilizer works, 400 x 160 ft., for Armour & Co., to cost about $300,000. All machinery is to be operated by electricity. Robert Clark, Arch., Chicago, Ill.——Anthony F. A. Schmitt, Arch., 604 Courtlandt Ave., New York, N. Y., writes us that no contracts have yet been let for erecting the proposed 2-story brick school building, on Baltimore, near Chapel St., for St. Michael's R. C. Church, to cost about $35,000.

WASHINGTON, D. C.—Bids are asked until August 18 for constructing the Washington public library building on Mt. Vernon Square. Bernard R. Green, Supt. of Construction, Congressional Library Bldg.——Bids are asked until August 30 for erecting a stable guard house at Washington Barracks. E. S. Benton, Q. M.

WASHINGTON, D. C.—The following bids were received July 28 by the district commissioners for erecting the colored manual training school building on P St., between First and Third, N. W., (1) being for building complete, according to specifications; (2) according to qualified specifications; (3) for extra pipe and fixtures: Pavarini & Grey, 814 18th St., N. W., (1) $119,000, (2) $115,000, (3) $500; B. F. Mochabee, (1) $123,262, (2) $119,006, (3) $511; Gleason & Humphrey, (1) $118,600, (2) $115,000, (3) $490; Joseph Richardson, (1) $117,250, (2) $114,095, (3) $495; Samuel J. Prescott & Co., 723 Ninth St., N. E., (1) $117,989, (2) $115,989, (3) $550; Edward Landvoight, 430 11th St., (1) $122,900; Meade & Reynolds, (1) $118,794, (2) $116,497, (3) $450; Arthur Cowsill, 634 I St., N. E., (1) $114,450, (2) $110,660, (3) $450; John Hughes, Jr., 232 St Paul St., Baltimore, Md., (1) $127,400, (2) $123,823; W. A. Kimmell, 1132 New Jersey Ave., N. W., (1) $120,000, (2) $118,765, (3) $888.

BIRMINGHAM, ALA.—Julian Kendrick, Cy. Engr., writes us that nothing definite has yet been done in regard to erecting the new jail, city hall or school buildings.

HUNTSVILLE, ALA.—It is stated that the Dallas Mfg. Co. will soon let contracts for erecting 50 frame cottages, to cost about $50,000, and also for a large warehouse.

CINCINNATI, O.—D. H. Burnham & Co., Rookery Bldg., Chicago, Ill., are said to have prepared plans for an addition, 100 x 90 ft., and one 30 x 40 ft., for the Cincinnati Art Museum, to cost about $100,000.——The building committee of the board of education is said to have adopted the plans of Dornette & Gordon, Pickering Bldg., for a 3 and 5-story brick schoolhouse at Kilgour and Ellen Sts., to cost about $60,000.

CIRCLEVILLE, O.—Bids are asked, according to reports, by the county auditor, until August 21 for erecting a 2-story brick building at the Children's Home.

CLEVELAND, O.—Press reports state that the Occidental Club is having plans prepared for a 3-story clubhouse on Pearl St., to cost about $25,000.

LEBANON, O.—W. R. Kemper, Cy. Engr., will receive bids for moving a brick house, 32x46 ft.

NORWOOD, O.—It is stated that the congregation of St. Elizabeth will erect a new church building on Mills Ave., to cost about $50,000. Rev. Francis Varellmanis, Pastor.

YOUNGSTOWN, O.—It is stated that the People's Amusement Co. will erect a theatre, to cost about $100,000, on South Champion St. W. H. Park, Pres.; E. N. Morrison, Secy.

PORTLAND, IND.—The contract for erecting the new county jail building has been let to the Pauly Jail & Mfg. Co., St. Louis, Mo., at $29,930, according to reports.

CHICAGO, ILL.—D. H. Burnham & Co., Rookery Bldg., are said to have completed plans for an industrial building, 686 x 275 ft. x 125 ft. high, on the lake front, to cost about $1,500,000.

DANVILLE, ILL.—Bids are asked until August 20 for erecting, including heating, ventilating and electric lights, a detention hospital building at the Danville Branch, N. H. for D. V. S. W. C. Tuttle, Secy.; I. Clements, Governor.

APPLETON, WIS.—It is stated that the Appleton Light Infantry Association will erect an armory for Co G, Second Regiment, N. G. Wis. Lieut. W. H. Zuehlke, Pres.

MILWAUKEE, WIS.—Press reports state that Gimbel Bros. will erect a 10-story stone addition to their present building.

DES MOINES, IA.—Smith & Gutterson, 609 Walnut St., are said to be preparing plans for an addition to St. Joseph's R. C. Academy on West Grand St., to cost about $60,000.

LAKE MILLS, IA.—Bids are asked until Aug. 15 for erecting a new brick school house. P. M. Joice, Pres. School Bd.; Buechner & Jacobsen, Archs., Manhattan Bldg., St. Paul, Minn.

WATERLOO, IA.—The board of county supervisors is said to be considering the question of erecting a new courthouse.

MINNEAPOLIS, MINN.—The Advance Thresher Co. has filed plans for a 6-story brick warehouse at 700 to 706 S. Third St., to cost about $600,000.

ST. PAUL, MINN.—Hermann Kutz & Co., New York Life Insurance Bldg., are said to be preparing plans for a 3-story armory building, 90 x 150 ft., on 6th St., near Exchange, to cost about $50,000.

TOPEKA, KAN.—Bids are asked until August 30 for alterations and repairs to the heating and ventilating apparatus in the U. S. building. Jas. K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.

ST. LOUIS, MO.—The council is said to be considering the question of making an appropriation for erecting a hospital.

MARLIN, TEX.—The contract for erecting the Levy Hotel here is said to have been let to the Stevenson Contract Co., of Dallas, at $58,500.

DENVER, COLO.—F. E. Edbrooke, People's Bank Bldg., is said to be at work on plans for a 3-story brick apartment house, 50 x 125 ft., at 15th and Tremont Sts., for Bennett & Meyers, to cost about $30,000.

PHOENIX, ARIZ.—Bids are asked for erecting an addition to the pump and boiler house, a complete ice plant, a Shone ejector and other sewer improvements, for furnishing a quantity of building materials, carpenters' tools, etc., at the Indian School. S. M. McCowan, Supt.

LEWISTON, IDAHO.—We are informed that the Sisters of St. Joseph contemplate erecting a large hospital here.

NAMPA, IDAHO.—William K. Johnson, 189 La Salle St., Chicago, Ill., is said to have prepared plans for a hotel building here for Col. W. H. Dewey, to cost about $40,000.

MARE ISLAND, CAL.—We are informed that no bids were received July 30 by W. K. Van Reypen, Surgeon-Gen. U. S. N., Washington D. C., for erecting a boiler house with equipment at the U. S. naval hospital.

RIVERSIDE, CAL.—At a special election, the people voted to issue $40,000 in bonds for erecting a high school building.

SACRAMENTO, CAL.—We are informed that the board of trustees will soon consider the question of issuing bonds for erecting a high school and a city hall building; also for sewer extensions, new water mains and a wharf, to cost in all about $1,000,000. M. J. Desmond, Cy. Clk.

SAN FRANCISCO, CAL.—Bids are asked until August 29 for constructing three buildings for officers' quarters at the U. S. naval training station on Yerba Buena Island. A. S. Crowninshield, Ch. Bureau of Navigation, Navy Dept., Washington, D. C.

STOCKTON, CAL.—Bids are asked until September 10 for erecting (except heating apparatus, electric wiring and conduits) the U. S. post office building here. James K. Taylor, Supv. Arch., Treasury Dept., Washington, D. C.

WINNIPEG, MAN.—The contract for installing, heating and ventilating apparatus and a plumbing system in the new University building has been let to the Dominion Steam Heating Co.

WATER-WORKS.

SANGERVILLE, ME.—The Sangerville Water Co. has let the contract for digging the trenches and for laying the mains for the work to F. E. Rollins. About 40 tons of pipe and a standpipe of 12,000 gallons capacity will be required.

CLAREMONT, N. H.—Bids, it is stated, are wanted at once by the Claremont Water-Works Co. for laying a new 10-in. main across the river to Kelsey's Island, and for sinking ten wells thereon for the proposed increased water supply. It is said that the pipe has been purchased, and that a Worthington pumping engine was received last year.

WOODVILLE, N. H.—The question of borrowing $50,000 for a driven well water supply has been postponed until March.

BOSTON, MASS.—Bids are asked until noon Aug. 9 for furnishing about 21,500 lbs. of composition castings; check, $200. A. P. Martin, Water Comr.

HOLYOKE, MASS.—The laying of the new water mains will be done by the city. Jas. L. Tighe, Cy. Engr.

LOWELL, MASS.—The council recently borrowed $75,000 to spend under the direction of the water board for extending the driven well system. This will require a new 24-in. force main, 14 and 16-in. suction mains of flanged pipe, about 130 valves of 2½ to 24 ins., about 6,000 ft. of 2½-in. extra strong wrought-iron pipe, five boilers, and three 3,000,000-gallon pumps. Robt. J. Thomas, Supt.

WILLIAMSTOWN, MASS.—Plans will be prepared at once for a reservoir at Rattlesnake Brook, to cost about $20,000, for the Williamstown Water-Works Co.

HARTFORD, CONN.—Local papers state that a leak has occurred in canal No. 4 of the water-works, whereby about 1,000,000 gallons a day are lost. J. S. Chase, Secy. Water Comrs.; J. M. Fairchild, Pres.

NORWALK, CONN.—Nothing definite has yet been done regarding improvements to the works. The city will sometime have to increase its water supply, either by additional reservoir or a pumping station. C. L. Glover, Mayor.

PLAINVILLE, CONN.—The town considers that the company owning the works charges too much. A town meeting has been held and a committee of selectmen and three citizens appointed to take steps towards building city works. Population, 2,000. Virgil Buell, Town Clk.; C. H. Calor, H. A. Osborne and D. B. Hills are on the committee.

BATH, N. Y.—The question of buying the works of the Bath Water-Works Co. is being considered.

CANAJOHARIE, N. Y.—The question of improving the water supply is being considered by the trustees. N. J. Herrick, Village Clk.

DEPEW, N. Y.—The projectors and owners of the works here, noted in our last issue, are known as the Depew & Lake Erie Water Co. The whole work has been designed and is being done by the American Pipe Mfg. Co., 112 North Broad St., Philadelphia, who are the original engineers and contractors. Water is taken from Lake Erie at a point 7,500 ft. from the Lake Erie pumping station and 6,500 ft. from the shore line; the crib is of timber construction, and the depth of water at that point is 34 ft. The intake pipe is so laid as to provide for 24 ft. clear depth for navigation purposes. About 2,135 ft. at the shore end is 30 ins. in diameter, and the balance is 20 ins. in diameter, of cast iron, with provision for a future parallel line of 20-in. pipe extending from the end of the 30-in. to the crib. The Lake Erie pumping station is 73 x 63 ft., built of brick, with steel roof trusses, slate roof, cement floor, etc. Pumping machinery consists of two triple-expansion condensing Duplex pumps, each having a maximum capacity of 3,000,000 gallons per 24 hours. Three 60 x 18 horizontal return tubular boilers and a brick stack 80 ft. high. The suction well is 12 ft. internal diameter and 28 ft. deep, and contains vertical screens. The discharge pipe is of cast iron, 16 ins. diameter, and about 70,000 ft. long, running to Depew. At this point is a 3,000,000-gallon reservoir and another pumping station, almost the duplicate of the one at Lake Erie. From Depew will be laid a line of distribution pipe seven miles long, to Wende for supplying water to the railway stations. Besides the pipes already enumerated, there will be a large amount of distribution pipe laid to supply the manufactories and villages along the lines of mains. The intake pipe is being laid by the Buffalo Dredging Co., Buffalo; the pumping stations are being built by B. I. Crooker, Buffalo; the pumping machinery is being installed by the Snow Steam Pump Co., of Buffalo; the six boilers and four air-storage tanks are being built by the Coatesville Boiler Works, Coatesville, Pa.; the pipes are being manufactured by the Donaldson Iron Co., Emaus, Pa.; and the U. S. Cast-Iron Pipe & Foundry Co., Chicago. The pipe-laying, reservoir and all other work has not been sublet yet, but is being done by the American Pipe Mfg. Co. direct. Work was begun the latter part of June, and is expected to be completed by November. J. W. Ledoux, Ch. Engr., American Pipe Mfg. Co.

FORT TERRY, N. Y.—Bids are asked until Aug. 13 for sinking an 8-in. well at Fort Michie, Gull Island, N. Y. Geo. A. Nugent, Q. M. Gen., Fort Terry.

HEMPSTEAD (L. I.), N. Y.—The question of the municipal ownership of the works and lighting plants is being considered.

JAMESTOWN, N. Y.—The question of the constructing of municipal works is being investigated. S. A. Collins, Pres. Bd. Aldermen.

LEBANON, N. Y.—The question of building works is reported as being considered.

MIDDLETOWN, N. Y.—The question of extending the works at a cost of from $110,000 to $125,000 will be voted upon Aug. 15. A dam will be built in Binnewater stream; an open channel 7,000 ft. long, as will also a new reservoir covering 83 acres, with a capacity of 224,000 gallons, with three dams, 20-in. iron pipe line, 18,000 ft. long, etc. If the project is voted for the work will be pushed. The final plans and specifications will be prepared by engineer not yet decided upon. F. O. Tompkins, Comr.; J. M. Hill, Secy.

PEEKSKILL, N. Y.—It is proposed to build a new 16-in. main from the reservoir to the business portion of the town to reinforce the present supply. A new 16-in. force main is also contemplated. A vote on the question will have to be taken, which cannot be before the end of the month. The work, if authorized, will be done by contract. J. W. Reynolds, Civil Engr., Peekskill, and C. E. Fowler, Consult. Engr., Poughkeepsie, N. Y.; W. J. Charlton, Supt.

SARATOGA, N. Y.—Improvements to the water-works, and the sewers are proposed. The village engineer has been directed to prepare plans for water carriers for the diversion of the surface water from the main sewer to the village brook. H. F. Thomas, Clk.; John Foley, Pres. Water and Sewer Comrs.

SYRACUSE, N. Y.—The proposed new pipe line to Skaneateles Lake for an increased water supply, will cost about $500,000. Jas. K. McGuire, Mayor.

WATERVLIET, N. Y.—Capitalists from Bridgeport, Conn., have offered to sell the West Troy Water-Works to the city for $225,000. The price was considered excessive. If the price is made at a figure that compares with the valuation placed on the plant by the water board, negotiations may be started by the city authorities. It will require about $100,000 to place the works in good condition, according to reports.

MILLVILLE, N. J.—The People's Water Co. has been incorporated with a capital stock of $100,000 by Geo. Pfeiffer, Jr., contractor, Camden, N. J.; Geo. A. Frey and Stanley W. Rusk.

NEWARK, N. J.—The council has voted to issue $30,000 in bonds for extending the mains. Ernest Adam, Cy. Surv.——The Franklin township committee has granted permission to extend mains in several streets.

ORANGE, N. J.—The Wright Steam Engine Works, 90 Broadway, New York, submitted the lowest bid, at $18,250, Aug. 6, for pumping engines at Campbells Pond, Milburn township.

NEW LISBON, N. J.—The board of freeholders has decided to build works at the new Burlington county insane asylum.

ALLEGHENY, PA.—The councils are considering a resolution submitted by Councilman H. E. Speidel requesting the water committee to ascertain the cost of a filtration plant. Councilman J. R. Hendricks; J. L. Brown, Supt.

JOHNSTOWN, PA.—The Manufacturers' Water Co. is arranging to begin the construction of the proposed Quesnahoning reservoir. The dam will be 80 ft. deep and about half a mile wide. It is said that the work will require 400 men for about a year.

McKEESPORT, PA.—Specifications for repairing the Riverview Park reservoir are being prepared, and work will soon be begun to clean the bottom of the reservoir. The question of increasing the water supply by driven wells is being considered. T. H. Venner, Supt.

PHILADELPHIA, PA.—Bids will soon be asked by the department of public works for borings for the sites for the proposed filters, subsidiary reservoirs and pumping stations, besides the borings to be made along the line of the proposed gravity conduit from Torresdale, noted last week.

PITTSBURG, PA.—W. F. Miller has been appointed engineer to take charge of the construction of the water filtration plant. Plans and specifications will be prepared at once. Bids for the work will be asked about Jan. 1. Sand filtration has been adopted. Geo. W. Wilson, Dir. Dept. Pub. Wks.——It is likely that new bids will soon be asked by the director for completing the Highland Park reservoir, work on which was begun by the Jonathan Clark & Sons Co., of Chicago.

POTTSVILLE, PA.—The county commissioners and the poor directors are considering plans for an increased water supply for the almshouse, etc.

WAYNESBORO, PA.—A. B. Staler is reported as making surveys for an increased water supply.

WILMINGTON, DEL.—The water commissioners are reported as considering the question of building a new dam in the Brandywine.

HYATTSVILLE, MD.—Morton, Reed & Co., Baltimore, have been awarded the contract for sinking a test well 500 ft. at $3.75 a ft. The water will be pumped to a standpipe, with a capacity of 100,000. Bids for furnishing the materials and for building the works are asked until Sept. 12, as stated in our advertising columns. Frederic Minshall, Engr., Norfolk, Va.; Dr. J. R. Owens, Pres. Council.

WASHINGTON, D. C.—Bids are asked until 2 p. m. Aug. 10, for furnishing and laying cast-iron water pipe, setting valves, hydrants, castings, stop-boxes, etc., for the works for the government hospital for the insane. Thos. Ryan, Acting Secy. Dept. Interior.——The district commissioners have decided to build a new pumping plant at Minnesota Ave. and 18th St., Anacostia. The smokestack will be 60 ft. high.

ABINGDON, VA.—The Abingdon Water & Light Co. has been incorporated with a capital stock of $25,000 by H. E. McWane, Lynchburg, Va.; C. W. Palmer, Saltville, and R. M. Page, Abingdon.

CHARLOTTESVILLE, VA.—The question of installing water meters is being considered. C. D. Carter, Supt.

NEWPORT NEWS, VA.—Reports state that a syndicate has been organized to secure control of the water supplies of this city, Hampton, Old Point Comfort, Fort Monroe and the Old Soldiers' Home, all now supplied by the Newport News Light & Water Co. Options on ponds and various water sources are now being secured.

ST. MARY'S, W. VA.—This place, it is stated, will soon vote on the question of issuing $12,000 in bonds for works.

GREENSBORO, N. C.—The $100,000 of bonds recently voted for the proposed works will soon be sold, according to reports. The firemen's committee has asked for bids for a new department house.

ATLANTA, GA.—Local papers state that the committee of ten citizens appointed to examine into the cause of the breaks of the water mains, etc., will call experts to examine the engine. W. E. Chapin, S. Y. Tupper and Thos. Egleston are on the committee.

VALDOSTA, GA.—The contract for sinking a test well for a water supply has been let to S. S. Chandler & Co. E. P. S. Denmark, Clk.

MIAMI, FLA.—Daniel Cosgrove is making examinations for a new water supply.

OCALA, FLA.—Action regarding the question of purchasing the works of the Ocala Water Co. has not yet been taken. W. S. Bullock, Mayor.

VICKSBURG, MISS.—The question of a filtered water supply from the Mississippi River is being considered. The same question is being considered by the officials of Jackson, Columbus and Meridian, Miss.

VICKSBURG, MISS.—It is stated that a bill has been forwarded to Chancellor Martin asking for the appointment of a receiver for the Vicksburg Water Supply Co. It is also stated that the bill has been filed by the local stockholders, representing about $25,000 of the original stockholders. It is expected that Chancellor Martin will take some action on the application soon. It is not decided whether the city has the right to build works, as the company has a 30-year exclusive franchise.

GEORGETOWN, KY.—Col. R. W. Nelson, Mayor of Newport, Ky., is reported to have purchased the works and the light plant of the Georgetown Water Co. and of the Georgetown Electric Light Co. for $30,000.

DYER, TENN.—The question of works has been indefinitely postponed. R. B. McDaniel, Mayor.

BELLEFONTAINE, O.—Bids are asked until Aug. 20 for furnishing a 2,000,000-gallon vertical cross-compound crank and flywheel pumping engine, according to reports. C. F. Martin, Secy. Trustees.

CINCINNATI, O.—The water-works commissioners have ordered a readvertisemnt for bids for new pumping machinery at the California works, to cost about $700,000. The bids for the four 30,000,000-gallon pumping engines received April 17 were published in our issue of April 26.

ELYRIA, O.—Bids are asked until Aug. 28 for the purchase of $300,000 of bonds for the proposed works. As soon as the bonds are sold bids for the construction will be asked. The water supply will be secured from the lake. F. N. Smith, Pres. Council; W. H. Parks, Cy. Clk.

FINDLAY, O.—The water board proposes to place meters on the property of water users. The council has passed an ordinance providing for a water main in Locust St. F. C. Ray, Cy. Clk.

GENEVA, O.—An election to vote on the question of works will be held Aug. 25. The water supply will be secured from the Grand River. Population, 3,000. J. B. Strawn, Engr., Salem, O.; D. G. Palmer, Mayor.

PRAIRIE DEPOT, O.—The council is reported to have voted to build works, to cost $15,000.

SPRINGFIELD, O.—The council proposes to issue $8,000 in bonds for new mains, etc. The question of putting in a filtration plant is being considered.

ALEXANDRIA, IND.—The council is reported to have voted to spend $5,000 for new mains, etc.

BAY CITY, MICH.—The question of selling the old pump and purchasing a new 5,000,000-gallon engine to cost not more than $15,000 is being considered by the water board. Petitions for new mains is being considered.

DURAND, MICH.—Bids are asked until Aug. 20 for furnishing the materials and for constructing works, and an electric plant, as stated in our advertising columns. Field & Hinchman, Engrs., Majestic Bldg., Detroit; H. L. Iser, Village Clk.

GRAND RAPIDS, MICH.—The police and fire commissioners have recommended the placing of a number of new hydrants and the building of two small reservoirs, and plans and specifications for new systems of water feed and main steam pipes at the pumping station, to cost about $3,000, have been prepared by Superintendent Meyer. Two new boilers, to cost $6,000, are to be purchased for the pumping station.

SOUTH HAVEN, MICH.—This place has voted on the question of issuing $18,000 in bonds for extending the works.

EUREKA, ILL.—It is not likely that anything will be done this season towards extending the works. G. W. Hootman, Mayor.

JOLIET, ILL.—It is proposed to build a supplementary 16-in. pipe line for fire protection at a cost of about $50,000.

NEOGA, ILL.—Bids for works and electric plant will be wanted about the end of the month; estimated cost, $17,000. J. D. Wallace, Engr., Champaign, Ill.

SPRINGFIELD, ILL.—The question of buying the works and electric plant is being considered. L. D. Yager, Corporation Counsel, of Alton, and C. E. Barnes, Corporation Counsel, of Springfield, are interested.

MILWAUKEE, WIS.—A. M. Patitz, Pabst Bldg., Milwaukee, is reported as preparing plans for works for two small towns to cost about $25,000 each.

SHAWANO, WIS.—This place will vote Aug. 24 on the question of issuing bonds for works and an electric plant.

SHEBOYGAN, WIS.—The city has an option, under franchise, to purchase the works at 5, 10, 15 or 20-year periods. In order to avail itself of this option, the council has appointed as appraisers D. W. Mead, First National Bank Bldg., Chicago, and J. B. Heim, Supt. Water-Works at Madison, Wis. The company appointed Geo. H. Benzenberg, of Milwaukee, and J. W. Alvord, Hartford Bldg., Chicago. Jointly they appoined Benezette Williams, 153 La Salle St., Chicago. They will meet in this city Aug. 13. C. U. Boley, Cy. Engr.

GREENE, IA.—This place has voted to build works, construction on which will soon be begun.

MOVILLE, IA.—It is stated that this place is to have works.

HALLOCK, MINN.—Bids are asked until Aug. 15 for furnishing the materials and for building works, to consist of a pumping station, pump, 25-HP. gasoline engine, 3,400 ft. 8-in. and 3,000 ft. 6-in. pipe, hydrants, valves, etc., and a 100-ft. steel tower. Bonds for $15,000 have been sold to Stoddard, Nye & Co., Minneapolis. G. A. Ralph, Engr., Crookston, Minn.; E. C. Yetter, Recdr.

RUSHFORD, MINN.—This place has voted against issuing bonds for works.

WEST CONCORD, MINN.—Bids are asked until Aug. 13 for constructing works and a power house, according to reports. F. J. Carpenter, Recdr.

PARSONS, KAN.—The Parsons Water & Gas Co. has increased its capital stock from $200,000 to $300,000.

BLOOMFIELD, NEB.—Bids are asked until Aug. 11 for constructing works, to cost $7,160, according to reports. W. D. Funk, Cy. Clk.

JAMESTOWN, N. DAK.—An election will be held Aug. 10 to vote on the question of works.

BUTTE, MONT.—Winters, Parsons & Co., Butte, are reported to have been awarded the contract to build a dam at Storm Lake, to cost $25,000.

WEST PLAINS, MO.—This place has voted to issue $27,500 in bonds for works and an electric plant. G. H Cobb, Clk.

MENA, ARK.—The contract for building gravity works has been let to O. J. Gorman, of Dallas, Tex., at $22,000. J. H. Hamilton, Pres. Comrs.

AUSTIN, TEX.—No steps have yet been taken by the city towards rebuilding the dam recently destroyed, although the sentiment is strong in favor of the project. H. C. Patterson, Supt.

GUTHRIE, OKLA. TER.—The council proposes to build a reservoir, according to reports.

OKLAHOMA CITY, OKLA. TER.—This place has voted to issue bonds for new works, sewers, etc.

ANACORTES, WASH.—The water supply is furnished by gravity works. There are at present about 14,000 ft. of mains, which will be increased to 22,800 ft. of 6 and 8-in. pipe. R. P. Thomas, Mayor.

REPUBLIC, WASH.—A franchise for works will probably be let in a few days to the Republic Syanide & Gold Mining Co. The water will be brought about five miles, to be pumped to a reservoir and supplied from there by gravity. A franchise recently reported as granted was vetoed by the mayor on July 20. G. J. Hurley, Cy. Clk.

SALT LAKE CITY, UTAH.—Bids are asked until Aug. 10 for furnishing the materials and for constructing works for the new University of Utah. Frank Pierce, Chn. Com., 304 McCormick Bldg.

KENDRICK, IDAHO.—A new reservoir will be built and the pipe line extended, the contract for which is said to have been let to H. Orchard, of Spokane, Wash.

ST. LOUIS, QUE.—The town has been authorized to purchase the works and light plant of the St. Louis Water & Power Co. for $135,500, when completed. The company, however, will lease the works and electric plant for 40 years. Address Mayor Villeneuve and Councilman Martel.

AYLMER, ONT.—Tests of artesian wells for a water supply are now being made with Downie pumps. The by-law and contracts for the works will be ready Sept. 20. Alex. Milne, Engr.

NEWMARKET, ONT.—The council is reported to have voted to spend $10,000 for improving the works and electric plant.

STURGEON FALLS, ONT.—Bids are asked until noon Aug. 9 for constructing works and a sewerage system. V. M. Roberts, Engr., Sturgeon Falls and St. Catharines, Ont.; John McNeil, Chn. Com.; H. E. McKee, Clk.

NORTH SYDNEY, N. B., CAN.—The town is reported to have sold $10,000 of bonds for improving the works.

PICTOU, N. S.—A private company of local parties is boring a well to supply the town with about 500,000 gallons of water. If successful, the town will at once construct works. Fred. MacKaracher, Town Clk.

SEWERAGE.

SOUTH PORTLAND, ME.—The following bids are said to have been received by the sewer committee for constructing a sewer in Stanford St.: John W. Gulliver, $6,800; John Flannagan, 778 Congress St., Portland, $8,300; John Richardson, $9,900; M. O'Neal, $10,025.

CHICOPEE, MASS.—Bids are asked by the city clerk, according to reports, until Aug. 10, for constructing about 2,700 ft. of 5-ft. brick sewer.

HAVERHILL, MASS.—The council is said to have appropriated $5,000 for sewer repairs, etc.

NEWTON, MASS.—Reports state that the council will soon be petitioned to extend the sewer system to Newton Upper Falls.

WAKEFIELD, MASS.—At a special election, this town recently voted to issue $250,000 in bonds for a system to connect with the metropolitan system.

NORWALK, CONN.—Charles N. Wood, Cy Engr., writes us that plans for the proposed sewer in Whistleville are now in the course of preparation.

BATH, N. Y.—C. A. Reynolds, County Clk., writes us that the board of supervisors will soon advertise for bids for sewers for the county buildings.

EAST SYRACUSE, N. Y.—George Goodfellow and Andrew Behr are said to have been appointed a committee to employ an engineer to prepare plans for a system to cost about $50,000.

KINGSTON, N. Y.—We are informed that Geo. N. Bell, Cy. Engr., has made a preliminary report on the proposed sewers for the 2d and 9th wards. The estimated cost for relieving a large part of the district is $85,000. A committee has been appointed to make agreements with private property owners as to rights of way required for stone sewers and purification plant.

NEW YORK, N. Y.—Bids are asked by the department of sewers, 21 Park Row, until August 15, for constructing a sewer in East 185th St., with a branch in Prospect Ave., Bronx Borough.

WATERFORD, N. Y.—Bids are asked until Aug. 15 for constructing a sewer in the Eighth Ward. Wm. A. Saxe, Secy. Pub. Improvement Comn. John Flynn, Jr., Engr.

WHITESBORO, N. Y.—Bids are asked until Aug. 27 for constructing a system for this village, as stated in our advertising columns. Charles F. McCarthy, Village Clk.

CALDWELL, N. J.—John Espey, Mayor, writes us that the city contemplates constructing a system, but has not yet secured plans nor appropriated money.

HACKENSACK, N. J.—Bids are asked until Aug. 20 for constructing about 370 ft. of 36 × 54-in., 820 ft. of 28 × 42-in., 180 ft. of 24 × 36-in. and 460 ft. of 18-in. sewers, with manholes, etc., as stated in our advertising columns. M. E. Clarendon, Pres.; Jacob Bauer, Secy. Improvement Comn.

JERSEY CITY, N. J.—It is stated that the council will appropriate $60,000 for constructing a steel-pipe drain in Fairmount Ave.

ORANGE, N. J.—The contract for constructing sewers in several streets has been let to Antonio Costa, at $5,452, according to reports.

PLAINFIELD, N. J.—Andrew J. Gavett, Cy. Surv., writes us that no steps have been taken toward constructing a septic tank at the filter beds and none are contemplated at present.

SUMMIT, N. J.—This town voted at a special election to issue $130,000 in bonds for sewer work and $10,000 for the fire department.

WEST HOBOKEN, N. J.—Bids are asked until Aug. 15 for constructing a sewer in Summit Ave. J. P. McMahon, Town Clk.

DUNMORE, PA.—Plans have been prepared and bids will be received in about thirty days for constructing the second sewer district in this city, to cost about $200,000.

HARRISBURG, PA.—The following bids are said to have been received by the highway commissioner for constructing a sewer on Schuylkill Ave.: Fisher & Lynch, $12,850 (accepted); W. H. Opperman, $17,436; Jas. P. Ward, $14,525. The contract for constructing the sewer in Hanover St. was let to W. H. Opperman at $1,609, and for grading Maclay St., to Peter Kreider, at $2,993.

IRWIN, PA.—At a special election this town is said to have voted to issue $30,000 in bonds for constructing a system.

MT. PLEASANT, PA.—J. J. Neel, Borough Engr., writes us that it is only proposed at present to complete the general plans for a sewer system. No sewers of any size will be constructed this year.

BRISTOL, VA.—We are informed that this city will construct a system, to cost about $2,000. W. H. Price, Jr., Clk.; Robt. Gray, Engr.

CULPEPER, VA.—Bids are asked by the mayor until Aug. 14 for constructing a system for a portion of this town.

BATON ROUGE, LA.—Press reports state that the contract for constructing a system, to cost about $50,000 has been let to L. W. Brown, of New Orleans.

ALLIANCE, O.—Bids are asked until Aug. 29 for constructing seven sewers, requiring about 3,420 ft. of 6-in., 5,210 ft. of 8-in. and 4,440 ft. of 10-in. pipe sewer, 36 manholes and 8 flush tanks. J. H. McConnell, Cy. Clk.

CANTON, O.—It is stated that a special election will be held Aug. 25, to vote on the question of issuing $75,000 in bonds for sewering Shriver's Run.

CLEVELAND, O.—Bids are asked until Aug. 20 for constructing Section 5 of the Walworth St. sewer. Jas. Ritchie, Ch. Engr.

CINCINNATI, O.—Bids are asked until Aug. 15 for constructing a sewer in Josephine St. Robert Allison, Pres.

FINDLAY, O.—Bids are asked until Aug. 23 for constructing a sewer in and paving Washington Ave. Frank C. Ray, Cy. Clk.

LA FAYETTE, IND.—Bids are asked until Aug. 13 for constructing about 2,632 ft. of brick and pipe sewers. W. K. Eldridge, Cy. Engr.

GRAND RAPIDS, MICH.—Will J. Sproat, Clk. Bd. Pub. Wks., writes us that it is not probable that any more contracts for sewer construction will be let this season.

HOLLAND, MICH.—At a special election, held July 30, the people of this town voted to issue $10,000 in bonds for constructing sewers. W. O. Van Eyck, Cy. Clk.

CHICAGO, ILL.—Bids are asked until Aug. 27 for constructing the incomplete portion of the terminal section of the main conduit for intercepting sewers in 39th St., as stated in our advertising columns. L. E. McGann, Asst. Comr., Pub. Wks.

SAUK CITY, WIS.—C. F. Winman, Village Clk., writes us that the following bids were received Aug. 1 for about 1,570 ft. of 24-in. pipe sewers, advertised in Engineering News: For laying sewer pipe, catchbasins, manholes, etc., and furnishing all labor and material except pipe, fittings and connections, Richard Nommensen, Sheboygan, $2,140; Webster & Blake, Dubuque, Ia., $2,020 (accepted); J. J. Culley, 316 Jackson St., Milwaukee, $2,447; for furnishing 1,570 ft. of 24-in. pipe, fittings and connections, John A. Rich Sewer Pipe Works, Red Wing, Minn., $1,345 (accepted).

MARSHALLTOWN, IA.—The council received no proposition on July 30 for a sewage daposal plant. Local papers state that the city officials will engage experts to carry on the work by day labor or will endeavor to have a private company organized to build and operate the plant. The plant is to have a capacity of 2,000,000 gallons a day, as noted in our issue of May 17. Mayor F. G. Pierce, Chn. Com.

WATERTOWN, S. DAK.—Press reports state that the council will soon ask for bids for constructing a system.

OKLAHOMA CITY, OKLA. TER.—This city is said to have voted, at a recent election, in favor of issuing bonds for constructing sewers, water-works, and a new city hall building.

DENVER, COLO.—We are informed that sub-district No. 5 of Capitol Hill storm sewer, district No. 1, is to be furnished with sewers this year. No date has yet been set for receiving bids.

SEATTLE, WASH.—The following bids are said to have been received July 21, improving the Main St. and 20th Ave sewer: Mitchell & Hard, $28,899; T. I. Peterson, $7,958; Stirrat & Goetz, $7,757; J. A. Bailey, $9,123; T. Ryan, $7,138; McCauley & Delaney, $6,882 (accepted).

BERKELEY, CAL.—Bids are asked until Aug. 13 for constructing a 6-in. vitrified pipe sewer in Ward St. M. L. Hanscom, Town Clk.

RIVERSIDE, CAL.—We are informed that plans are being prepared for about one mile of 8 to 14-in. pipe sewers. James W. Johnson, Cy. Engr.

STURGEON FALLS, ONT.—Bids are asked until Aug. 9 for constructing a system of sewers and water-works. John McNeil, Chn. Water-Works and Sewer Com.; H. E. McKee, Town Clk.

AMHERSTBURG, ONT.—The council is said to be receiving bids for constructing a sewer on Dalhousie St.

GARBAGE DISPOSAL—STREET CLEANING

LAWRENCE, MASS.—No official action regarding a plant has yet been taken. Estimates have been requested in an informal way as a guide to future action, which must be taken soon. Roscoe Doble, Clk.

BUFFALO, N. Y.—Health Commissioner Wende and City Bacteriologist Bissell favor frequent collection of garbage in the resident districts of the city.

MADISON, N. J.—Plans for a plant in this city are being prepared, according to reports.

EAST ORANGE, N. J.—John Finan, of this city, has been awarded the contract for collecting the garbage, refuse, etc., of the city for a term of two years at $4,300 a year. Chas. C. Anen was the only other bidder at $9,975 for the two years.

LANCASTER, PA.—M. L. Davis, whose furnaces are being used by the government in Cuba, is reported to have been awarded the contract for a plant for this city at $15,250, the city to collect the garbage.

CLEVELAND, O.—The court has been asked to appoint a receiver for the Buckeye Refuse Destruction Co. by John Ensign and F. H. Baer, stockholders, according to local papers.

MILWAUKEE, WIS.—The contract for a garbage disposal plant is said to have been let to the American Incinerating Co.

VALLEJO, CAL.—City Engineer Noyes has been directed to prepare plans for a salt-water street sprinkling plant.

SALT LAKE CITY, UTAH.—Alderman R. B. Whittemore has been visiting western cities to make a study of garbage disposal plants. The aldermen propose to build a plant to cost $20,000.

STREETS AND ROADS.

LEE, MASS.—The state highway commission has allotted $13,500 for the construction of the Lee-Lenox Road.

BROOKLYN, N. Y.—The following contracts have been awarded by the department of highways, 21 Park Row, New York: Cranford & Co., 524 St. Mark's St., for asphalting Willoughby Ave., $39,234; McDonough St., $11,416; Gold St., $2,887; Keap St., $11,487; Pacific St., $10,991; Second Ave., $32,715. Norton & Gorman, for grading and paving Schenck Ave. with block, $41,079. A. E. Donovan, for paving Adams St. with granite, $17,287.

NEW ROCHELLE, N. Y.—Reports state that the building of the North St. Boulevard, which is to cost about $100,000, has been postponed, and advertisements calling for bids for construction have been withdrawn for the present. It is said that the plans are not ready.

ROME, N. Y.—Bids are asked until August 20 for constructing a flag sidewalk on Floyd Ave. F. A. Coleman, Cy. Engr.

SYRACUSE, N. Y.—It is stated that City Hall Square will be repaved with asphalt at once.

WATERTOWN, N. Y.—The contract for street work in this city has been let to James Driscoll & Son, Brookline, Mass., at $18,060, according to reports.

PLAINFIELD, N. J.—The county commissioners have decided to widen Westfield Ave., to cost about $74,000.

UNION, N. J.—Bids are asked until August 14 for paving Hudson Ave. with asphalt. Chas. Singer, Jr., Town Clk.

PHILADELPHIA, PA.—Felix Brown is said to have submitted the lowest bid at $5,438 for improving Fottenall Square.

BRISTOL, VA.—We are informed that this city will pave several streets with brick, to cost about $15,000. W. H. Price, Jr., Cy. Clk.; Robt. Gray, Engr.

WILMINGTON, DEL.—H. J. Wiley, Secy. Street and Sewer Dept., writes us that the paving of Harrison, Market, Seventh, Tatnall and 11th Sts. is contemplated, but no definite steps have as yet been taken.

FAIRMONT, W. VA.—The contract for paving a number of streets in this city, to cost about $12,500, is said to have been let to C. Kennedy, of Parkersburg.

BIRMINGHAM, ALA.—We are informed that nothing definite has as yet been done toward paving Fifth Ave., and that 17th St. will be macadamized by the city force. Julian Kendrick, Cy. Engr.

MORRISTOWN, TENN.—We are informed that several counties in this vicinity are contemplating making extensive road improvements, and that the good roads movement will probably increase rapidly from now on. The county turnpike commission has $50,000 on hand for constructing county roads, the road out from the city will be macadamized 14 ft. wide for about two miles and 10 ft. wide for four or five miles further, also graded from 16 to 24 ft. wide. The legislature will be asked to appropriate $50,000 next year to continue the work. Bids are asked until Aug. 18 for about 65 miles of grading and macadamizing, as stated in our advertising columns last week. F. A. Dunham, Engr., 220 Broadway, New York, N. Y.

CINCINNATI, O.—Bids are asked until August 15 for improving Smith and Arthur Alleys. Robert Allison, Pres. Bd. Pub. Service; Geo. F. Holmes, Clk.——The board of public service is said to have directed the city engineer to prepare plans and specifications for improving Eggleston Ave., to cost about $75,000.

CLEVELAND, O.—The following bids were received July 25 by the board of control for improving Bank St.: Northern Ohio Paving & Construction Co., $5,101 (recommended for acceptance); Cleveland Trinidad Paving Co., $5,120; Brennan & Buettner, $5,155. Wm. E. Sage, Secy.

DAYTON, O.—Bids are asked until August 27 for repairing the asphalt streets for one year. C. A. Herbig, Pres. Bd. City Affairs; Robt. H. Ferguson, Cy. Comptroller.

LIMA, O.—Bids are asked until Aug. 30 for about 10,946 sq. yds. of asphalt paving on East McKibben St., and until Aug. 31 for paving East Market St., with asphalt; C. E. Lynch, Cy. Clk.——It is said that the council recently rejected all bids for paving East Market St.

MARION, O.—City Engineer Ault is said to have received the following bids for paving North Prospect St.: Nelsonville block, Murphy grout filler, Dwyer & Uncapher, $10,471; Chas. Hofstetter, $10,431; Kelly & Co., $10,551; D. E. Sullivan, Columbus, $12,104. Athens block, Murphy grout filler, Brady & O'Connell, $9,761; Dwyer & Uncapher, $10,316; Chas. Hofstetter, $7,748; Kelly & Co., $10,303; D. E. Uncapher, $11,855; Wassal block, Murphy grout filler, Brady & O'Connell, $9,761; Dwyer & Uncapher, $10,378; C. Hofstetter, $9,748; Kelly & Co., $10,396; Logan block, Murphy grout filler, Brady & O'Connell, $9,761; Dwyer & Uncapher, $10,471; Chas. Hofstetter, $10,121; Kelly & Co., $10,520; D. E. Sullivan, $12,103. Wassal block, cement filler, C. Hofstetter, $9,438; D. E. Sullivan, $12,041. Athens block, cement filler, Chas. Hofstetter, $9,500. Block asphalt, Brady & O'Connell, $15,219; Dwyer & Uncapher, $14,787; Kelly & Co., $17,507; D. E. Sullivan, $18,748.

SANDUSKY, O.—Bids are asked until Sept. 3 for grading at the Childrens' Home grounds and for constructing several macadam roads in the grounds. J. E. Gallagher, County Audr.

TOLEDO, O.—Bids are asked until Sept. 3 for paving portions of seven streets with brick block or asphalt pavement. J. E. Connell, Cy. Clk.

INDIANAPOLIS, IND.—Bids are asked by the board of public works until Aug. 10 for paving and improving portions of 10th St. and English Ave.

LA FAYETTE, IND.—Bids are asked until Aug. 13 for about 20,252 sq. yds. of sheet or block asphalt, and until Aug. 27 for about 4,054 sq. yds. of sheet or block asphalt, and 6,444 sq. yds. of sheet or block asphalt or telford macadam pavement. W. K. Eldridge, Cy. Engr.

DETROIT, MICH.—The contract for paving Van Dyke Ave. with cedar blocks is said to have been let to Geo. E. Currie, 40 W. Fort St., at $11,512, and for paving Field Ave., to Wm. Lappin, 926 Concord St., at $17,487.

BERWYN, ILL.—The council will soon be petitioned to pave Oak Park Road, for a distance of about four miles, according to reports.

PONTIAC, ILL.—Bids are asked until Aug. 17 for constructing about 19,000 sq. yds. of brick pavement in this city, as stated in our advertising columns. F. G. White, Cy. Clk.; P. C. Knight, Engr.

COUNCIL BLUFFS, IA.—We are informed that bids were called for Aug. 6 for about 76,000 sq. yds. of brick pavement. S. L. Entyre, Cy. Engr.

ST. PAUL, MINN.—Bids are asked until Aug. 13 for about 7,382 sq. yds. of asphalt pavement on a 6-in. concrete foundation in Mackubin St. Wm. L. Ames, Pres. Bd. Pub. Wks.; C. H. Bronson, Clk.——The following bids have been received by the board of public works for asphalting Jackson St.: the Barber Asphalt Paving Co., city's portion, $8,519, street railway's portion, $3,392; American Contracting Co., W. H. Love, Agent, 655 Rice St., $8,400 and $3,350 (accepted).

DENVER, COLO.—Geo. T. Williams, Secy. Bd. Pub. Wks., writes us that petitions are being circulated for constructing crushed stone pavements in several districts. Four districts are now under way.

RIVERSIDE, CAL.—We are informed that plans are being prepared for paving several streets with gravel and for constructing cement sidewalks, curbs and gutters in several streets. Jas. W. Johnson, Cy. Engr.

LUCKNOW, ONT.—Bids are asked until Aug. 15 for constructing about 36,500 sq. ft. of cement concrete sidewalks. Hugh Morrison, Village Clk.

MANUFACTURING PLANTS.

SPRINGFIELD, MASS.—The $25,000 capital of the Warehouse Point Distilling Co., which proposes to build a distillery at Warehouse Point, Conn., is said to have been subscribed.

BINGHAMTON, N. Y.—It is reported that the Crown Steel Co. will locate its plant in this city.

NEW YORK, N. Y.—Thomas P. Daniels, of Daniels & Co., 6 Wall St., is reported as stating that the Isaac Borg Chewing Gum Co., Chicago, will locate in this city. A site for the plant is now being secured.

SALAMANCA, N. Y.—Leland B. Ferry, Secy., informs us that the Salamanca Furniture Works will need three buildings, one of which will be four stories, 132 × 50 ft., the others being a dry kiln and boiler house, of brick. The buildings will cost about $10,000. Gas engines, elevators, wood working machinery, etc., will be needed.

CAMDEN, N. J.—It is stated that the Mellor-Rittenhouse Co., Philadelphia, Pa., will erect a plant in this place for the manufacture of licorice. The plant will cost about $1,500,000. Permits have already been granted for the building, one of which will be a one-story brick and iron building, 60 × 360 ft.

NEWARK, N. J.—We are informed that the Palmer Leather Co. has not yet awarded contracts for a 100-HP. engine, 200-HP. boilers, heating and ventilating, pumps, vats, etc. Otis Dockstatter, Arch., New Orange.

RICHMOND, VA.—Reports state that the Armitage Mfg. Co. will rebuild its paper and pulp plant, destroyed by fire some time ago. The new plant will cost about $20,000. Chas. F. Armitage is interested.——It is stated that the directors of the Richmond Passenger & Power Co. have ordered contracts to be let for enlarging the company's plant, and for installing new machinery, to cost about $250,000.

RICHMOND, VA.—Local papers state that the council is negotiating for the location of a large plant in this city. J. Thompson Brown may be able to give further information.

MARION, S. C.—A cotton mill is to be built at this place, to be capitalized at $125,000. J. R. Mace is interested.

EASTMAN, GA.—A knitting mill has been organized by the citizens of this town. The enterprise will be capitalized at $10,000. N. Wynne, Pres.

LAVONIA, GA.—J. W. Cannon, Director, Lavonia Cotton Mill, writes us that plans for the company's plant have not been prepared. The equipment will cost about $60,000. W. Crawford, Pres.

NEWNAN, GA.—Bids are wanted by the Newnan Cotton Mills until Aug. 15 for the erection of mill No. 2. The mill will have 10,000 spindles. T. J. Jones, Chn.

GAINESVILLE, FLA.—It is stated that John Chestnutt and G. W. Moyers, Gainesville, have closed contracts for the erection of a palmetto fiber factory, and for the equipment.

PONCHATOULA, LA.—A company has been organized here to build a sugar mill. The company will be capitalized at $20,000. F. J. Campbell, M. F. Tucker and J. R. Abels are interested.

CHATTANOOGA, TENN.—The question of locating a glass factory in this city is being considered, according to reports. W. A. Thompson is interested.

MURFREESBORO, TENN.—The novelty mills of W. B. Earthman & Co. were destroyed by fire on Aug. 2.

YOUNGSTOWN, O.—Local papers state that the Republic Iron & Steel Co. is having plans prepared for a billet mill, to cost about $500,000.

CHICAGO, ILL.—The Zion Land & Investment Association will soon begin to erect a building for the manufacture of fine laces, to be 600 ft. long and 110 ft. wide. The plans for the building will be ready in about two weeks, and will be on file at Zion City Engineer's office, 1302 Michigan Boulevard, Chicago. Burton J. Ashley, Ch. Engr.

PUEBLO, COLO.—John Birkenbine, Consulting Engr. Colorado Fuel & Iron Co., 25 N. Juniper St., Philadelphia, Pa., is reported as stating that the improvements being made to the Colorado Fuel & Iron Co.'s plant at this place will quadruple its capacity, and will cost about $750,000.

ROSSLAND, B. C.—Reports state that plans are being prepared for doubling the capacity of the Northport smelter. It is also understood that improvements and additions will be made to the Trail smelter, to cost about $100,000.

MISCELLANEOUS CONTRACTS.

SCOW.—Snohomish, Wash.—Bids are asked until Aug. 30 for building a scow to be delivered at Stanwood. T. E. Headlee, County Clk.

ARMY WAGONS.—Jeffersonville, Ind.—Bids are asked until Aug. 18 for furnishing 250 army escort wagons. C. R. Barnett, Deputy Q. M. Gen.

FIRE APPARATUS.—Battle Creek, Mich.—It is stated that this city will purchase an aerial hook and ladder truck and a fire engine. Address City Clerk Hamm.

HOSE WAGON.—St. Paul, Minn.—Bids are asked by the board of fire commissioners, according to reports, until Aug. 14 for furnishing a hose wagon with a capacity of 3,000 lbs.

LUMBER.—New London, Conn.—Bids are asked until Aug. 14 for furnishing a quantity of yellow pine lumber, at the naval station. A. S. Kenny, Paymaster Gen., U. S. N., Washington, D. C.

FIRE ALARM SYSTEM.—Watertown, Wis.—We are informed that the members of the city government are speaking favorably of installing a fire alarm system. G. H. Stanchfield, Cy. Engr.

BREAKWATER.—Chicago, Ill.—Bids are asked until Aug. 15 for constructing about 700 ft. of breakwater at Lincoln Park. F. H. Gansbergen, Pres. Lincoln Park Comrs.; C. H. Erby, Secy.

STEEL LIGHTER.—Philadelphia, Pa.—Bids are asked until Aug. 14 for one steel hull steam lighter at the League Island, Pa., navy yard. A. S. Kenny, Paymaster Gen., U. S. N., Washington, D. C.

DRAFT APPARATUS.—Washington, D. C.—Bids are asked until Aug. 15 for an induced draft apparatus for the new boilers at the U. S. Treasury Building. Jas. K. Taylor, Supv. Arch., Treasury Dept.

BANK REVETMENT.—St. Louis, Mo.—Bids are asked until Aug. 10 for constructng bank revetment at the chain of rocks. Robert E. McMath, Pres. Bd. Pub. Improvements; E. S. Forster, Secy.

DREDGING.—Tompkinsville, N. Y.—Bids are asked until Aug. 18 for the necessary dredging in the basin at the U. S. Light-House Depot, as stated in our advertising columns. Lieut.-Col. D. P. Heap, U. S. Engr.

DISTILLING PLANT.—Santa Barbara, Cal.—Bids are asked until Aug. 17 for a 6-HP. gasoline and distillate engine and a triple action pump to deliver 3,000 gallons of salt water per hour at an elevation of 250 ft. C. A. Hunt, Clk.

DREDGING MACHINERY.—Biloxi, Miss.—Bids are asked until Aug. 21 for furnishing dredging machinery for use of the Maine Hospital Service at the Gulf Quarantine Station. P. C. Kalloch, Surgeon, M. H. S., in command of station.

CANAL.—Port Huron, Mich.—Bids are asked until Aug. 25 for constructing a canal about 6,600 ft. long, 25 ft. wide and 28 ft. deep, from Lake Huron to Black River, requiring about 440,000 cu. yds. of excavation, as stated in our advertising columns. R. D. O'Keefe, Supt. Pub. Wks.

FOG SIGNAL HOUSE, ETC.—Buffalo, N. Y.—Bids are asked until Sept. 17 for constructing a steel frame keeper's dwelling, and tower with lantern and fog signal house on crib and concrete foundation in Lake Erie; at the entrance to Maumee Bay, O., as stated in our advertising columns. Maj. T. W. Symons, U. S. Engr.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until Aug. 14 for furnishing a quantity of lumber, pipe, fittings, etc., and one gun lathe at the Navy Yard, Washington, D. C., and for furnishing a quantity of steel shapes, steel plates, copper piping and one locomotive crane at the Navy Yard, Boston, Mass.; also for one pipe-threading machine at the Naval Academy, Annapolis, Md. A. S. Kenny, Paymaster General, U. S. N.

LIGHT-HOUSE.—Norwalk, Conn.—The following bids were received Aug. 7 by Lieut.-Col. D. P. Heap, U. S. Engr., Tompkinsville (S.I.), N. Y., for erecting a lighthouse at Green's Ledge Light Station, as advertised in Engineering News: Philadelphia Construction Co., Girard Bldg., Philadelphia, $29,780; Toomey Bros. & Co., Guilford, Conn., $32,740; Augustus Smith, 39 Cortlandt St., New York, $34,800; Wm. H. Flaherty, 73 First Place, Brooklyn, N.Y., $35,400; Randolph & Baer, 541 Heed Bldg., Philadelphia, $35,400; William Beattie, 37 North Quarry St., Fall River, Mass., $39,200; Richmond Iron Works, Richmond, Va., $44,500.

FOREIGN CONTRACTS AND EXPORT NEWS.

CLOTHING FACTORY.—Mexico, Mex.—It is said that Henry G. Feraldey, of Chicago, proposes to build a clothing factory in this city to cost about $200,000.

RAILWAY EXTENSION.—Puebla, Mex.—The extension of the railway between Puebla and Tlacualpicán to Tiapa, through Chiautla and other points of Guerrero, is to be undertaken immediately.

HOTEL.—London, Eng.—An American syndicate is reported as arranging to have built a steel construction hotel to adjoin the new Waterloo Ry. Station. A New York architect has been engaged.

ELECTRIC TRAMWAYS, PAVILIONS, ETC.—Bournemouth, Eng.—The council has voted about $1,250,000 for electric tramways, to be completed in two years, a pier pavilion, etc. F. W. Lacey, Borough Surv.

EXTENDING WATER-WORKS.—Cardiff, Wales.—C. H. Priestley, Engr. Water-Works, estimates that the new reservoir at Taff Vawr will cost about $1,200,000, and he recommends that work be begun at once.

WATER FILTERS, PIPE, VALVES, ETC.—Bury, Eng.—Bids are asked until Aug. 21 for filters, water pipe, valves, etc., for the proposed filtration plant. J. Cartwright, Engr., Peel-Chambers, Market Pl., Bury; John Haslam, Clk.

ELECTRIC TRAMWAYS.—London, Eng.—Reports state that Chas. T. Yerkes, formerly owner of the Chicago street railways, has secured an option on the leading underground railway systems, which he proposes to convert into electric traction.

MARKET HALL.—Leeds, Eng.—Bids will probably soon be wanted for furnishing the materials and for erecting the proposed new market hall, to cost $400,000. Leeming & Leeming, Archs., London and Halifax, Eng. Arthur Musgrave, Supt. Market.

REMOVING WRECK.—San Juan, P. R.—Bids are asked until Oct. 5 for removing the wreck of the steamer "Christobal Colon," lying in entrance to San Juan Harbor, as stated in our advertising columns. Capt. W. V. Judson, U. S. Engr., San Juan.

ELECTRIC TRAMWAY.—Barcelona, Spain.—Application have been made for two additional tramways in the vicinity of Barcelona.——Bids are wanted until Aug. 25 by the officials of Cuidad Real, Spain, for establishing and working a telephone system for 20 years.

CUSTOMS BUILDING.—Guayaquil, Ecuador.—The government invites proposals for the furnishing of materials for the construction of an iron building to be used for the customs service in Guayaquil. The plans and conditions of the contract are to be had by addressing the authorities at Guayaquil.

BOILERS, ETC.—London, Eng.—Bids are asked until Aug. 20 for furnishing dryback marine boilers, 11 ft. 9 ins. by 14 ft., or water-tube boilers, etc., for the plant of the Central Electric Supply Co., Ltd. Alex. B. W. Kennedy, Engr., 17 Victoria St., S. W.; F. J. Walker, Gen. Mgr., 19 Carnaby St., W.

ENGINES.—Wellington, New Zealand.—Bids are asked until Sept. 30 for furnishing a set of triple expansion condensing engines 150 HP., and air compressors. Plans and form of tender may be secured on payment of $5 by addressing John Duthie & Co., Ltd., 23 Lime St., London, E. C.; J. E. Page, Town Clk

OPAL MINING.—Queretaro, Mex.—Reports state that an American syndicate is negotiating for the purchase of the opal mines of Mexico, which are principally located around Queretaro. Improvements to the mines will be made if the negotiations succeed. J. C. Block, of New York, is at the head of the syndicate.

INSULATING GLOVES.—Paris, France.—Bids are wanted until Dec. 31 by the Association of French Manufacturers for the Prevention of Accidents to Employees, Paris and Brussels, for furnishing an insulating glove for the use of working electricians. A prize of 1,000 francs is offered for the most satisfactory glove.

RAILWAY IMPROVEMENTS.—Buenos Ayres, Argentina.—"El Ferrocarril del Sur" (the Southern Railway) will spend $15,000,000 in the improvement of its line. The improvement will consist in the addition to and erection of suitable stations and the ballasting and straightening of certain portions of the roadway.

WATER-WORKS AND IRRIGATION.—Sinaloa, Mex.—Reports state that A. J. Streeter, of New Windsor, Ill., has made arrangements with the federal government for a water concession at Sinaloa. He proposes to irrigate 100,000 acres near Topolobampa. He owns 70,000 acres in the Fuerte Valley in the same district.

RAILWAY.—Tasmania.—Reports state that the directors having been appointed and all matters finally settled in connection with the Blythe iron mine, immediate steps will be taken to construct the railway from the Ulverstone-Burnie line to the mine. It is estimated that there is 40,000,000 tons of ore in sight above the river level.

REMOVING OBSTRUCTIONS.—San Jose, Costa Rica.—Congress has granted the executive permission to secure plans and bids for cleaning the channel of Punta Arenas, of the rivers Tempisque and Las Piedros. Plans are to be completed in six months from May. Two steamers are to be bought by the government after the streams are cleared.

WATER-WORKS.—Jassy, Roumania.—Bids are asked until Sept. 4-17, for furnishing the materials and for constructing water-works, or for the purchase of a concession for constructing and operating the same. The council is said to guarantee to the concessionaire an income of 500,000 francs a year. There will be reservoirs, an aqueduct, mains, pumping stations, etc. Address the Mayor, care of the Communal Council, Jassy. Chas. Chalgneau, Ch. Engr.

ELECTRIC PLANT, ETC.—Uberaba (Minas Geraes), Brazil.—An English company is reported to have made arrangements to build an electric plant to light Uberaba; estimated cost, $50,000. The power will be generated by turbines placed in the Uberaba River.——A company has been organized in Belgium to establish a railway and navigation service on the Tocantins-Araguaya. The Belgians have subscribed 14,000,000 francs in preferred stock and 1,500,000 in common stock. Preferred and common stock will have a 6% dividend.

ELECTRIC TRAMWAYS.—North Melbourne, Australia.—The town council is considering a proposition from the Victorian Electric Light, Heat & Power Distributing Corporation, Broken Hill Chambers, Melbourne, to build an underground conduit or overhead trolley line through the town of Melbourne, and also wires for supplying electric current for light, heat and power for private parties. The company proposes to build tramways and supply power and light to places within a radius of 10 miles of Melbourne. It is proposed to erect 103½ miles of electric tramways.

POWER STATIONS.—Vienna, Austria.—This city, which has hitherto been supplied with electricity by a company, is now to have its own station, and the contractor is also to build a power station for the municipal electric tramways. The latter will contain five units of

3,000 HP. each, and the former three units of similar size, with room for extensions embracing three and one more unit respectively. The tramway station is to be running by June of next year, and to be completed by the end of that year; and the station for general supply should also be completed soon after. A loan of $6,250,000 is to be obtained for the purpose.

EXTENDING WATER-WORKS.—Moscow, Russia.—U. S. Consul Smith, of Moscow, under date of June 23, 1900, reports that the municipality has been granted by the government the privilege of issuing a loan to the extent of 14,000,000 rubles ($7,000,000), for the purpose of enlarging the capacity of the water-works. The loan was granted in consequence of a water famine, which occurred a month ago, and lasted about five days, through a breakage of the main supply pipe at the connections near the water-works. Foreign manufacturers are invited to make bids for contracts in supplying machinery, etc. N. P. Simin, Ch. Engr. Water Dept.

SOCKET PIPES.—Soerabaya, Java.—Bids are asked until Sept. 26 for about 3,400 tons asphalt-coated cast-iron socket pipes for the water-works of Soerabaya. The delivery must take place in the roads of Soerabaya. Specifications and conditions in the Netherlands or English language, and drawings, may be obtained from Martinus Nyhoff, Noblestreet 18, The Hague, Holland, on payment of Fl.2.50, Netherlands currency (which will not be returned). Stamped forms for the tender can also be obtained from the same on payment of Fl.0.37c., Netherlands currency. The tenders, with specifications of the prices, are to be delivered at the Colonial Office (Technical Bureau), The Hague, Holland.

RAILWAY CONSOLIDATION.—Mexico.—Reports state that a consolidation of Vera Cruz railway and trolley lines and steamship companies has been completed, and an English corporation has taken over the combination. The new company is known as the Vera Cruz Ry. Co., Ltd., and it has a capital stock of $1,875,000. Norton & Co., of London, financed the deal. The properties include a railway from Vera Cruz to Alvarado, 46 miles; another road from San Juan to Julie, 18 miles; the street railroads in the vicinity of Vera Cruz, and a fleet of steamers and other vessels lately acquired from the Vera Cruz River Navigation Co. The directors are Sir Weetman D. Pearson, Contractor, 16 Airlie Gardens, Campden Hill, London, W., Eng.; L. M. Camacho, and J. B. Body, Civil Engr., 15 Puente de Alvarado, Mexico City.

NAVIGATION AND MINING.—Tegucigalpa, Honduras.—The "Pabellon" and "La Gaceta," of Tegucigalpa, both publish a concession recently given to Edward H. Burke, representing Thos. P. Chambers, Alex. Chambers, and Robt. Alexander, of Pennsylvania, U. S. This grants the right for the construction of a railway between the rivers Sulaca and Comagua and the exclusive right of navigating the rivers Ulia, Humaya, Chamelecon, Sulaco, and their tributaries for a period of 25 years; also the exclusive privilege of dredging the rivers for the gold that may be found in their channels. Besides these privileges and exclusive rights, there is a moderate land grant with a first claim on all mines which may be located within two years for a distance of 500 meters on each side of the line of the railroad and 1,000 meters on each side of the River Sulaco.

ELECTRIC PLANT.—Brisbane, Queensland.—The municipal council has received propositions for electric lighting from Wright & Reason, of Brisbane, the Electrical Construction Corporation of Australasia, Ltd., E. C. Barton, of Brisbane, and the Brush Electric Co. Wright & Reason offer to supply electricity, to carbon, trim, and maintain a suitable number of arc lamps in Queen St., of not less than 500 watts each, or 2,000 c. p. nominal; to supply electricity for any number for other thoroughfares at 2½d. per unit, in addition to the actual cost of carbonizing and cleaning; thus providing electricity for street lighting at practically cost price, in addition to having the principal thoroughfare well illuminated free of cost. The Barton proposition offered to take over the Order-in-Council in the reduced area for 42 years in return for the erection of 12 arc lamps, and the supply of electricity requisite, free of expense, in the main thoroughfare, and to supply current at 2¼d. per unit. John Hesketh, Government Elect. Engr., has reported favorably upon the first proposition, and expressed the opinion that the terms offered by Wright & Reason are more advantageous than either the proposition to install separate plant or the alternative of their distributing a supply of electricity obtained by them from the Tramways Co. Mr. Hesketh estimated an initial capital expenditure, on the most favorable scheme, of not less than $150,000, with extensions, and if the work is to be properly carried out, to from $500,000 to $750,000.

CONTRACT PRICES.

SEWERS.—Princeton, Ill.—The following bids were received Aug. 1, 1900, for constructing sewers; (1) J. L. Berry, Iowa City, Ia. (2) D. L. Barber, Mendota, Ill.; (3) Wm. Horrabin, Iowa City, Ia.; (4) C. H. Law, Mendota, Ill.; (5) F. August Johnson, Princeton; contract for lines Nos 3 and 4 awarded F. August Johnson, at $1,348, and for lines Nos 5 and 6 to Wm. Harrabin, at $4,165; S. L. Bradley, Chn. Com.:

	1.	2.	3.	4.	5.
Line No. 3:					
8-in. tile .1,300 lin. ft..	$544	$612	$530	$564	$490
Manholes.. 4 each...	120	134	112	126	104
Flushtank and manhole	60	70	59	64	60
Total for No. 3.....	$724	$816	$701	$754	$654
Line No. 4:					
8-in. tile..1,400 lin. ft..	$588	$686	$560	$602	$504
Manholes.. 5 each...	150	168	140	168	130
Flushtank and manhole	60	70	59	64	60
Total for No. 4.....	$798	$924	$759	$834	$694
Line No. 5:					
8-in. tile..3,000 lin. ft..	$1,260	$1,350	$1,110	$1,170	..
Manholes.. 11 each...	330	369	308	319	..
Flushtank and manhole	60	70	59	64	..
Total for No. 5.....	$1,650	$1,789	$1,477	$1,553	..
Line No. 6:					
10-in. tile.4,410 lin. ft..	$2,426	$2,293	$2,161	$2,646	..
Manholes.. 18 each...	540	630	468	522	..
Flushtank and manhole	60	70	59	64	..
Total for No. 6.....	$3,026	$2,993	$2,688	$3,232	..
Grand total	$6,198	$6,521	$5,625	$6,373	$1,348

WELL.—Washington, D. C.—The following bids were received July 24, 1900, by Thos. Ryan, Acting Secy. Dept. Interior, for sinking one or more 6 or 8-in. wells 400 ft., at the Government Hospital for the Insane: W. C. Miller, Anacostia, D. C., 6-in. well, standard drive pipe, $18.76 per ft.; extra heavy drive pipe, $28.58; 8-in. standard drive pipe, $28.18; extra heavy, $47.85. W. E. De Witt, Washington, 6-in. 300 ft., $5.15 per ft., over 300 and less than 400 ft., $5.20; 8-in. 300 ft., $6.55; less than 400 ft., $6.65; 6-in. strainer, $6; 8-in. strainer, $7.50.

PIPE SEWERS.—Denver, Colo.—The following bids were received July 24, 1900, for sewers in sub-district No. 20 of Capitol Hill storm sewer district No. 1; all are local bidders (1) being R. P. McDonald Building Co., (2) Jas. Carbis & Co. (accepted), (3) J. M. O'Rourke Construction Co.:

		1.	2.	3.
*27-in. vit. pipe sewer	1,010 lin. ft..	$2.50	$2.21	$2.65
24-in. " "	550 " "	2.40	1.56	2.20
21-in. " "	1,460 " "	1.95	1.51	1.75
18-in. " "	1,530 " "	1.50	1.02	1.25
15-in. " "	1,000 " "	1.25	.65	1.05
12-in. " "	900 " "	.75	.56	.85
10-in. " "	1,100 " "	.65	.39	.70
27-in. brick sewer....	60 " "	4.00	3.00	4.00
24-in. " "	20 " "	3.50	3.00	5.00
21-in. " "	30 " "	3.00	3.00	5.00
10-in. Y branches on:				
26 or 27-in. pipe....	4 each...	6.00	3.00	5.00
24-in. pipe	2 " ...	5.50	3.00	5.00
18-in. "	4 " ...	3.00	1.40	4.00
15-in. "	3 " ...	2.00	1.00	4.00
12-in. "	1.....	1.80	1.00	2.50
21-in. "	1.....	4.50	2.50	5.00
6-in. Y branches on:				
24-in. pipe	1.....	5.50	3.20	5.00
18-in. "	1.....	3.00	1.40	4.00
12-in. "	2 each...	1.80	1.40	2.00
6-in. ⅛ bends	10 " ...	.80	.40	2.00
10-in. ⅛ bends	15 " ...	1.00	.60	2.00
Regular manholes...	43 " ...	40.00	29.60	47.00
No. 8 receiving basins	40 " ...	65.00	52.00	60.00
Asphalt pvmt complete	150 sq. yds.	4.00	2.30	3.00
Grading to basins.....	100 cu. yds.	.50	.32	.50
Total		$17,204	$12,607	$16,573

*This calls for a 26 or 27-in. vitrified pipe sewer.

Sub-district No. 21—Carbis & Co. were also awarded the contract for this district, as follows: Pipe sewer, 26 or 27-in., 644 ft., $2.03 a lin. ft.; 24-in., 350 ft., $1.80; 21-in., 680 ft., $1.54; 18-in., 20 ft., $1; 15-in., 1,490 ft., 70 cts.; 12-in., 2,440 ft., 56 cts.; 10-in., 800 ft., 39 cts.; 21 and 27-in. brick sewer, 22 ft., $3; 12-in. Y's on 24, 26 or 27-in. pipe, 3, $3 each; 10-in. on 12 and 15-in., 5, $1 each; 12-in., on 21-in. 2, $2.50 each; 10-in., on 26 or 27-in., 3, $3.70 each; 10-in. and 12-in. ⅛ bends, 10, 65 cts. each; regular manholes, 31, $29 each; drop manholes, 1, $33; No. 8 receiving basins, 28, $52 each; No. 11 inlet, 1, $50; asphalt pavement taken up and relaid, 60 yds., $2.30 a yd.; grading approaches to basins, 100 cu. yds., 32 cts. a yd.; total, $8,437.

TRUNK SEWER.—Columbia, Mo.—The following bids were received July 31 for a trunk sewer; W. H. Kolkmeyer & Co., were awarded contract; Hiram Phillips, Engr., Lincoln Trust Bldg., St. Louis:

Bids Received at Columbia, Mo., July 31, 1900, for Constructing a Trunk Sewer.

Bidder.	Pipe sewer 15-in. 5,860 ft.	12-in. 3,640 ft.	10-in. 7,280 ft.	9-in. 5,060 ft.	Flush-tanks, 3 each.	Man-holes, 74 each.	Rock excavation, a yd. Solid.	Loose.	Masonry, a yd.	Concrete, a yd.	Cast-iron pipe, a ton.	Total.
Thomas Hogan, Booneville, Mo.....	$0.56	$0.48	$0.46	$0.44	$60.00	$30.00	$3.00	$2.00	$5.00	$4.00	$35.00	$16,526
Meyers Const'n Co, St. Louis, Mo.....	.75	.50	.40	.35	70.00	32.00	2.00	1.00	8.00	6.00	40.00	16,344
W. H. Kolkmeyer & Co., Jefferson City	.52	.48	.46	.42	58.00	20.00	1.85	.35	2.75	3.25	37.00	13,984
Ebert & Shannahan, Quincy, Ill.	.61	.50	.42	.40	75.00	30.00	3.00	1.50	20.00	2.00	40.00	16,131
Matt & Roberts, Independence, Mo....	.545	.455	.405	.38	50.00	25.00	2.50	1.50	5.00	5.00	40.00	14,951
Ford & Hawkins, Lexington, Mo.....	.55	.47	.41	.35	65.00	35.00	2.50	1.50	4.00	4.00	40.00	15,579

STEEL BRIDGE.—Chicago, Ill.—The following bids were received Aug. 6, 1900, by Maj. J. H. Willard, U. S. Engr., for furnishing the materials and erecting the superstructure for a single-track bridge across the Illinois & Mississippi Canal at Rock Falls, Ill.:

Bidder.	Steel, 290,000 lbs. cts.	Cast iron, 8,000 lbs. cts.	Total.
Massillon Bridge Co., Toledo.....	4.0	4.0	$11,920
Toledo (O.) Bridge Co.....	3.41	3.0	10,129
King Bridge Co., Cleveland.....	3.65	4.0	10,905
Lassig Bdge & Iron Wks, Chicago.	2.95	2.8	8,779
Chicago Bridge & Iron Co.....	3.38	3.38	10,072

GRADING STREETS.—Washington, D.C.—The following bids were received by the district commissioners Aug. 4, 1900, for grading certain streets in the suburbs; (1) M. F. Talty, (2) Lyons Bros., (3) Andrew Gleeson, all bidders of Washington; Morris Hecker, Asst. Engr. D. C., Chevy Chase, Md.:

	1.	2.	3.
Excavation .....17,200 cu. yds.	$0.23	$0.20	$0.295
Setting 6x20-in. curb 8,300 lin. ft..	.19	.20	.28
Setting 8x8-in. curb. 600 " "	.30	.32	.395
Laying cobble gut'r10,900 sq. yds.	.24	.20	.27
Macadam: Unloading and haulage,1 m.12,700 cu. yds.	.37	.38	.49
Overhl, over 1 ml.19,000 " "	.20	.28	.23
Total	$16,828	$17,618	$21,171

FIRE HOSE.—Lexington, Ky.—The following bids were received July 25, 1900, for fire hose: Fire Fabric Hose Co., 68 Murray St., New York, 1,000 ft. lace double jacket, 90 cts. per ft.; Eureka Fire Hose Co., Paragon, 90 cts. per ft.

DREDGING.—Potomac River, D. C.—Col. C. G. Allen, U. S. Engr., Washington, received the following bids Aug. 2, 1900, for dredging in the Potomac River: (1) being for Virginia channel above Long bridge, (2) same below, (3) Washington channel: Atlantic, Gulf & Pacific Co., New York, (1) 12 8-10 cts., (2) 12 8-10 cts., (3) 14 8-10 cts.; M. A. Dugan, Washington, (1) 14⅞ cts., (2) 14⅞ cts., (3) 13 97-100 cts.; American Dredging Co., Philadelphia, (1) 15.9 cts., (2) 15.9 cts., (3) 15.9 cts.; Bowers Hydraulic Dredging Co., Camden, N. J., (1) 16½ cts., (2) 16½ cts., (3) 16½ cts.

ASPHALT PAVING.—New York, N. Y.—The Atlantic Asphalt Paving Co. submitted the lowest bid July 11, 1900, at $3.15 for asphalt paving in 6th Ave., from 23d to 33d Sts. The National Asphalt paving Co. submitted the highest bid at $4.13. For the other streets, on which traffic is not unusually heavy, the bids varied from $2.30 a sq. yd. to $3. There were nearly 300 bids, each with half-a-dozen items. The bidders were the Atlantic Asphalt Paving Co., the Barber Asphalt Paving Co., the National Asphalt Co., the Sicilian Asphalt Co. and the Warren-Scharf Asphalt Paving Co. and the Asphalt Construction Co.

PUBLIC LIGHTING.—Tiffin, O.—The following bids were received July 30, 1900, for public lighting, J. B. Ehrenfriend, Cy. Clk.: Tiffin Edison Electric Illuminating Co., $7 per month for arc lights of 2,000 c. p. each; Tiffin Electric Light Co., $7; Tiffin Light & Fuel Co., $22.50 per year for latest improved Welsbach Boulevard lamp, for gas light, for 5 years' contract; $22.05, 7 years; $21.50, 10 years; $21, Globe, 5 years; $20.50, 7 years; $20, 10 years; Welsbach St. Lighting Co. of America, Columbus, O., $25 a light per year, Welsbach Boulevard lantern, 5 years; $24 per year, 7 years; $23 per year, 10 years.

PAVING.—Styker, O.—C. W. Ryan, of Maumee, O., submitted the lowest bids July 23, 1900, for paving as follows: Defiance St., 6,950 sq. yds., brick, $1.48, on 6-in. concrete and 2-in. sand, including grading, 1,100 cu. yds. excavation and filler; 1,540 ft. curbing, 50 cts. ft.; 440 ft. retaining stone, 30 cts. ft.; catch basins, $40 each; grading for macadamizing, 14 cts. per cu. yd.; macadamizing material, 65 cts. per cu. yd.; labor, 80 cts. per cu. yd. J. S. Hoadley, Engr., Bryan, O.

CAST-IRON SEWER PIPE.—Houston, Tex.—Local papers state that the following bids were received July 17, 1900, for furnishing cast-iron sewer pipe for the new sewers: The U. S. Cast-Iron Pipe Co., about 1,200 tons of 18 and 24-in. pipe, $24.40 per ton of 2,000 lbs, and 10 tons of special castings of regular patterns, 2¼ cts. per lb., all delivered f. o. b. cars Houston. The Dimmick Pipe Co., 24-in. pipe, per ton of 2,000 lbs., $24.90; 18-in. pipe, per ton of 2,000 lbs., $24; special castings, ten tons of 2,000 lbs., each, $45.25.

BRICK PAVING.—Council Bluffs, Ia.—B. P. Wickham has been awarded the contract at $1.45½ a sq. yd. for brick paving in North Main St., with Council Bluffs brick top and bottom courses, with cement filler on top course; five-year guarantee. He has also been awarded the contract for a single course, Des Moines brick paving on concrete in Broadway, at $1.89½ a sq. yd., and also portions of several other streets.

DREDGING.—Brooklyn Navy Yard, N. Y.—The following bids were received by the bureau of yards and docks, Navy Dept., Washington, Aug. 4, 1900, for 12,000 cu. yds. of dredging at the navy yard, N. Y., all local bidders: Morris & Cummings Dredging Co., 64 cts. per cu. yd. in place; R. G. Packard Co., 54 cts. in scows; W. H. Beard Dredging Co., 65 cts. in scows.

WATER PIPE.—Boston, Mass.—The following bids were received by the water commissioner Aug. 3, 1900, for furnishing 950 tons (2,000 lbs.) of cast-iron water pipe, viz., 200 tons 16-in. A, 200 tons 16-in. B, 350 tons 12-in. B, 100 tons 10-in. B, 100 tons 8-in. B: Warren Foundry & Machine Co., $22.30 per ton for all kinds; U. S. Cast-Iron Pipe & Foundry Co., $20.90 (accepted); Camden Iron Works, $21.72 for the 16-in. A, 16-in. B and 12-in. B, $22.72 for the 10-in. B and 8-in. B.

INDUSTRIAL NOTES.

THE POWER SPECIALTY CO., 126 Liberty St., New York, announces its acquisition as vice-president and engineer of Mr. Ernest H. Foster, for 16 years with Henry R. Worthington.

THE NEW ENGLAND STRUCTURAL CO., Boston, has been awarded the contract for the steel frame work and ornamental iron work for the new 8-story Liberty Square Building to be erected in that city.

THE UNITED STATES CLAY MFG. CO., Empire Bldg., Pittsburg, announces that none of the plants owned or operated by it have passed from its control, notwithstanding reports to the contrary, and that no such sale is under consideration or contemplated. The company claims that the works owned by it were the first manufacturers of salt-glazed pipe for water supply mains and that these have been in successful use for 13 years in at least one city.

THE CHICAGO PNEUMATIC TOOL CO., Monadnock Block, Chicago, announces the appointment of Mr. Fred F. Bennett as sales agent and manager of advertising. Mr. Bennett, until July 1, was sales agent for the American Steel Casting Co. and American Coupler Co., Chester, Pa., and had previously had experience as reporter and editor and also as Western representative of the "Railroad Gazette." His headquarters will be at the main office.——The company continues to report an increasing business and states that the recent opening of its Olney plant is to be followed by another new plant at Detroit, which it is hoped to have in operation in September. All factories are working night and day. Among contracts received last month were entire orders from the General Electric Co., Cramps Ship Yards, Philadelphia & Reading Ry., Maryland Steel Co., Riter-Conley Mfg. Co., an order for 34 additional drills from the Richmond Locomotive Works and an unusually large number of foreign orders.

NEW COMPANIES.—Elmira Heights Foundry & Machine Co., Elmira Heights, N.Y.; $10,000; H. M. Beardsley, H. H. Hollock, Elmira; J. McGregor.

Washington Brick Co., Alexandria, Va.; $200,000; T. L. Holbrook, C. J. Bell, Washington, D. C.; J. R. Caton.

Chelsea Dredging & Improvement Co., Atlantic City, N. J.; $100,000; J. Thompson, C. L. Cole, J. C. Delaney.

Akron Electrical Mfg. Co., Akron, O.; $200,000; E. E. Andrews, L. C. Miles, J. M. McGregor.

Mail Delivery Notice.

Complaints are frequently sent to us because subscribers do not receive their papers on time. The first pages of Engineering News go to press on Monday each week, the next 32 pages on Tuesday, and the remaining pages, including "Wants," "Proposals" and "For Sale" cards, early on Wednesday. All papers for Boston, Philadelphia, Washington and Greater New York should be received upon the first delivery Thursday. The last of the entire edition is in the New York post-office soon after 6 o'clock Thursday morning. If your paper is not received promptly we suggest that you make a complaint in writing to your local post-office officials. This will be investigated and the letter forwarded to the office where the delay occurs.

NEARLY EVERY PROMINENT CONTRACTOR and Manufacturer of Contractors' Supplies READS ENGINEERING NEWS.
Avail Yourself of this Paper when Bids are Wanted for Construction or for Furnishing Supplies.

Suppl

PERSONA
Obituar
ENGINEE
Comin
NEW PUB
Trade
CONSTRU
Conden
Railwa
Street
Electri
Bridge
Buildin
Water-
Sewera
Garbag
Streets
Manuf
Miscel
Foreig
Contra
INDUSTR
New C

Mr. W.
of the Wh

Mr. Tho
neer in th
of Boston

Mr. Ha
Engineer
at the Cit

Messrs.
been appo
water-wo

Messrs.
been app
of paving

Mr. Wi
pointed
Ry. to su

Mr. Ch
Manager
the Secon
St., New

Mr. R
motive
Paterson
his whol
Rogers
ceeded.

Mr. J
Co., of
Pa., on
neer, hi
of Hunt
Secretar

Profes
Mathem
lottesvil
the Uni
at Berli
tenant
Robt. E
Mathem

Profes
Observa
Prof. K
Hopkins
Quincke
was Di
1898, w
servato
Society

Mr. C
Pacific
dacks,
Mr. H
his fat
jurist
Connec
Preside
lated
man,
by tra
his fo
Stanfo
ganize
Subsec
organi
speak
Newp
News
throp

Maj
Missi
Aug.
1850.
ficatio
of F
was
Picke
Assis
of W